

6 Lake Street PO Box 1436 Lawrence, MA USA 01841

Telephone (617) 681-0392 • TeleFax (617) 681-9135 • Telex 928377



### TYPE 1N60A

**FEATURES** 

Low forward voltage drop

—low power consumption

Thirty years of proven reliability

—one million hours mean time between failures (MTBF)

Very low noise level Metallurgically bonded

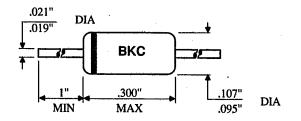
## **ABSOLUTE MAXIMUM RATINGS**

| Peak Inverse Voltage        | 30V           | @ 25 °C   |
|-----------------------------|---------------|-----------|
| Peak Forward Current        | 150mA         | unless    |
| Operating Temperature Range | -65°C to 85°C | otherwise |
| Average Power Dissipation   | 80mW          | specified |

# ELECTRICAL CHARACTERISTICS

| CHARACTERISTICS  | Symbol          | Conditions        | Min. | Max.      | Unit         | T °C              |
|--|-----------------|-------------------|------|-----------|--------------|-------------------|
| Peak Inverse Voltage<br>Inverse Current<br>Forward Voltage | PIV<br>Ir<br>Vf | 1mA<br>10V<br>5mA | 30   | 65<br>1.0 | V<br>uA<br>V | 25°<br>25°<br>25° |
|  |                 |                   |      |           |              |                   |

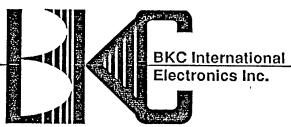
### **MECHANICAL**



# **GOLD BONDED GERMANIUM DIODE**

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Telephone (617) 681-0392 TeleFax (617) 681-9135 Telex 928377



#### **FEATURES**

Low forward voltage drop—low power consumption
Thirty years of proven reliability—one million hours mean time between failures (MTBF)
Very low noise level
Metallurgically bonded

# ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage

Peak Forward Current

**Operating Temperature Range** 

Average Power Dissipation

130 Volts

500 mA

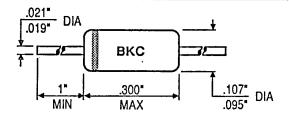
- 65 °C to 85 °C

80 mW

# **ELECTRICAL CHARACTERISTICS**

|                      | Symbol | Conditions | Min | Max | Unit | T °C  |  |
|----------------------|--------|------------|-----|-----|------|-------|--|
| Peak Inverse Voltage | PIV    | 1 mA       | 130 |     | V    | 25 °C |  |
| Reverse Current      | lr     | 100 V      |     | 300 | μΑ   | 25 °C |  |
| Reverse Current      | lr     | 125 V      |     | 700 | μΑ   | °C    |  |
| Forward Voltage      | Vf     | 5 mA       |     | 1   | V    | 25 °C |  |
|                      |        |            |     |     |      | 1     |  |
|                      |        |            |     |     |      |       |  |

### **MECHANICAL**



# GOLD BONDED GERMANIUM DIODE



#### **FEATURES**

Low forward voltage drop—low power consumption Thirty years of proven reliability—one million hours mean time between failures (MTBF) Very low noise level Metallurgically bonded

#### ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

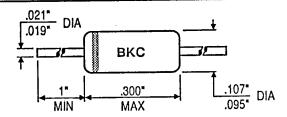
Peak Inverse Voltage Peak Forward Current Operating Temperature Range Average Power Dissipation

110 Volts 500 mA - 65 °C to 85 °C 80 mW

# **ELECTRICAL CHARACTERISTICS**

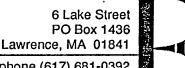
|  | Symbol          | Conditions            | Min | Max      | Unit         | 1℃                      | İ |
|--|-----------------|-----------------------|-----|----------|--------------|-------------------------|---|
| Peak Inverse Voltage<br>Reverse Current<br>Forward Voltage | PIV<br>Ir<br>Vf | 1 mA<br>125 V<br>5 mA | 110 | 700<br>1 | V<br>μΑ<br>V | 25 °C<br>25 °C<br>25 °C |   |
|  |                 | 1                     | į.  |          | l            | l                       | 1 |

### MECHANICAL



T-01-07

# GOLD BONDED GERMANIUM DIODE



Telephone (617) 681-0392 TeleFax (617) 681-9135 Telex 928377



### **FEATURES**

Low forward voltage drop—low power consumption
Thirty years of proven reliability—one million hours mean time between failures (MTBF)
Very low noise level
Metallurgically bonded

### ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage
Peak Forward Current
Operating Temperature Range
Average Power Dissipation

125 Volts

500 mA

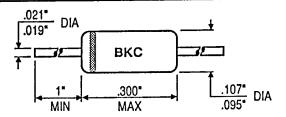
- 65 °C to 85 °C

80 mW

# **ELECTRICAL CHARACTERISTICS**

|  | Symbol          | Conditions           | Min | Max     | Unit         | T℃                      |  |
|--|-----------------|----------------------|-----|---------|--------------|-------------------------|--|
| Peak Inverse Voltage<br>Reverse Current<br>Forward Voltage | PIV<br>Ir<br>Vf | 1 mA<br>50 V<br>4 mA | 125 | 50<br>1 | V<br>μΑ<br>V | 25 °C<br>25 °C<br>25 °C |  |

## **MECHANICAL**



# Type No. 1N63A

T-01-07

# **GOLD BONDED GERMANIUM DIODE**



#### **FEATURES**

Low forward voltage drop—low power consumption Thirty years of proven reliability—one million hours mean time between failures (MTBF) Very low noise level Metallurgically bonded

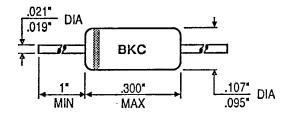
#### ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage **Peak Forward Current** - 65 °C to 85 °C **Operating Temperature Range** Average Power Dissipation

#### **ELECTRICAL CHARACTERISTICS**

|                      | Symbol | Conditions | Min  | Max | Unit | 1 00  |  |
|----------------------|--------|------------|------|-----|------|-------|--|
| Peak Inverse Voltage | PIV    | 1 mA       | 100  |     | V    | 25 °C |  |
| Reverse Current      | lr ·   | 50 V       |      | 50  | μΑ   | 25 °C |  |
| Forward Voltage      | Vf     | 4 mA       |      | 1   | V    | 25 °C |  |
|                      |        |            | <br> |     |      |       |  |
|                      |        |            |      |     |      |       |  |
|                      |        |            | 1    |     |      |       |  |

# **MECHANICAL**



Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

100 Volts

80 mW

500 mA

T-01-07

# GOLD BONDED GERMANIUM DIODE



#### **FEATURES**

Low forward voltage drop—low power consumption
Thirty years of proven reliability—one million hours mean time between failures (MTBF)
Very low noise level
Metallurgically bonded

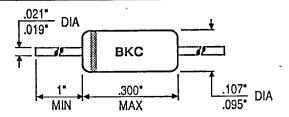
## ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage 85 Volts
Peak Forward Current 500 mA
Operating Temperature Range -65 °C to 85 °C
Average Power Dissipation 80 mW

#### **ELECTRICAL CHARACTERISTICS**

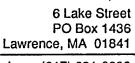
| •  | Symbol          | Conditions             | Min | Max | Unit         | Τ ℃                     |  |
|--|-----------------|------------------------|-----|-----|--------------|-------------------------|--|
| Peak Inverse Voltage<br>Reverse Current<br>Forward Voltage | PIV<br>Ir<br>Vf | 1 mA<br>50 V<br>2.5 mA | 85  | 200 | V<br>μΑ<br>V | 25 °C<br>25 °C<br>25 °C |  |
|  |                 | 2.0 1101               |     |     |              |                         |  |

#### **MECHANICAL**

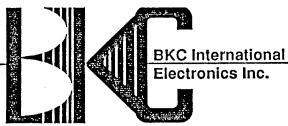


# Type No. 1N66

## GOLD BONDED GERMANIUM DIODE



Telephone (617) 681-0392 TeleFax (617) 681-9135 Telex 928377



#### **FEATURES**

Low forward voltage drop—low power consumption
Thirty years of proven reliability—one million hours mean time between failures (MTBF)
Very low noise level
Metallurgically bonded

#### ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage

60 Volts

Peak Forward Current

500 mA

Operating Temperature Range

- 65 °C to 85 °C

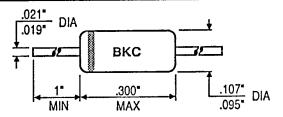
Average Power Dissipation

80 mW

## **ELECTRICAL CHARACTERISTICS**

|                      | Symbol | Conditions | Min | Max | Unit | 1 %   |   |
|----------------------|--------|------------|-----|-----|------|-------|---|
| Peak Inverse Voltage | PIV    | 1 mA       | 60  |     | V    | 25 °C |   |
| Reverse Current      | ir     | 10 V       |     | 50  | μΑ   | 25 °C | ļ |
| Reverse Current      | lr     | 50 V       |     | 800 | μΑ   | °C    |   |
| Forward Voltage      | Vf     | 5 mA       |     | 1   | V    | 25 °C |   |
|                      |        |            |     |     |      |       |   |
|                      |        |            |     |     |      |       |   |

### **MECHANICAL**



# Type No. 1N66A

T-01-07

# GOLD BONDED GERMANIUM DIODE



#### **FEATURES**

Low forward voltage drop—low power consumption
Thirty years of proven reliability—one million hours mean time between failures (MTBF)
Very low noise level
Metallurgically bonded

#### ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage
Peak Forward Current
Operating Temperature Range
Average Power Dissipation

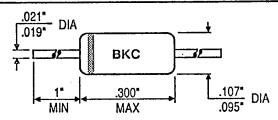
60 Volts 500 mA - 65 °C to 85 °C

80 mW

## **ELECTRICAL CHARACTERISTICS**

|   | Symbol    | Conditions   | Min | Max | Unit    | Т℃             |  |
|---|-----------|--------------|-----|-----|---------|----------------|--|
| Peak Inverse Voltage<br>Reverse Current | PIV<br>Ir | 1 mA<br>10 V | 60  | 50  | V<br>μΑ | 25 °C<br>25 °C |  |
| Forward Voltage                         | Vf        | 5 mA         |     | 1   | V       | 25 °C          |  |

### **MECHANICAL**



# GOLD BONDED GERMANIUM DIODE



#### **FEATURES**

Low forward voltage drop—low power consumption Thirty years of proven reliability—one million hours mean time between failures (MTBF) Very low noise level Metallurgically bonded

# ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage Peak Forward Current **Operating Temperature Range** Average Power Dissipation

80 Volts

500 mA

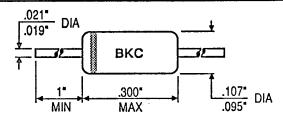
- 65 °C to 85 °C

80 mW

## **ELECTRICAL CHARACTERISTICS**

| ·                    | Symbol | Conditions | Min | Max | Unit | T°C   |   |
|----------------------|--------|------------|-----|-----|------|-------|---|
| Peak Inverse Voltage | PIV    | 1 mA       | 80  |     | V    | 25 °C |   |
| Reverse Current      | lr     | 5 V        |     | 5   | μΑ   | 25 °C |   |
| Forward Voltage      | Vf     | 4 mA       |     | 1   | V    | 25 °C |   |
|                      |        |            |     |     |      | •     |   |
|                      |        |            |     |     |      |       |   |
|                      |        |            |     |     |      |       | ĺ |

#### **MECHANICAL**



# Type No. 1N67A

T-01-07

# **GOLD BONDED GERMANIUM DIODE**



#### **FEATURES**

Low forward voltage drop—low power consumption
Thirty years of proven reliability—one million hours mean time between failures (MTBF)
Very low noise level
Metallurgically bonded

## ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage

100 Volts

Peak Forward Current

500 mA

Operating Temperature Range

- 65 °C to 85 °C

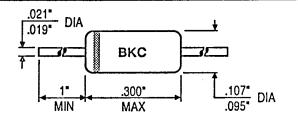
Average Power Dissipation

80 mW

#### **ELECTRICAL CHARACTERISTICS**

| •                    | Symbol | Conditions | Min | Max | Unit | T°C   |  |
|----------------------|--------|------------|-----|-----|------|-------|--|
| Peak Inverse Voltage | PIV    | 1 mA       | 100 |     | V    | 25 °C |  |
| Reverse Current      | . Ir   | 5 V        |     | 5   | μΑ   | 25 °C |  |
| Reverse Current      | lr     | 50 V       |     | 50  | μΑ   | °C    |  |
| Forward Voltage      | Vf     | 4 mA       |     | 1   | V    | 25 °C |  |
|                      |        |            |     |     |      |       |  |
|                      |        |            |     |     |      |       |  |

#### **MECHANICAL**



# **Type No. 1 N 6 8**

# GOLD BONDED GERMANIUM DIODE



#### **FEATURES**

Low forward voltage drop—low power consumption Thirty years of proven reliability—one million hours mean time between failures (MTBF) Very low noise level Metallurgically bonded

# ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage Peak Forward Current **Operating Temperature Range** Average Power Dissipation

100 Volts

500 mA

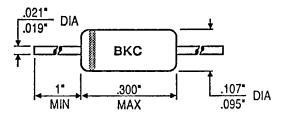
- 65 °C to 85 °C

80 mW

## **ELECTRICAL CHARACTERISTICS**

|                      | Symbol | Conditions | Min | Max | Unit | T°C   |  |
|----------------------|--------|------------|-----|-----|------|-------|--|
| Peak Inverse Voltage | PIV    | 1 mA       | 100 |     | V    | 25 °C |  |
| Reverse Current      | lr     | 100 V      |     | 625 | μΑ   | 25 °C |  |
| Forward Voltage      | Vf     | 3 mA       |     | 1   | ٧    | 25 °C |  |
|                      |        |            |     |     |      | •     |  |
|                      |        |            |     |     |      |       |  |
|                      |        |            |     |     |      |       |  |

#### **MECHANICAL**



# Type No. 1N68A

T-01-07

# GOLD BONDED GERMANIUM DIODE



#### **FEATURES**

Low forward voltage drop—low power consumption
Thirty years of proven reliability—one million hours mean time between failures (MTBF)
Very low noise level
Metallurgically bonded

# ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage

130 Volts

Peak Forward Current

500 mA

**Operating Temperature Range** 

- 65 °C to 85 °C

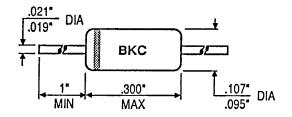
Average Power Dissipation

80 mW

# **ELECTRICAL CHARACTERISTICS**

|                      | Symbol | Conditions | Min | Max | Unit | T°C   |  |
|----------------------|--------|------------|-----|-----|------|-------|--|
| Peak Inverse Voltage | PIV    | 1 mA       | 130 |     | V    | 25 °C |  |
| Reverse Current      | lr .   | 100 V      |     | 625 | μΑ   | 25 ℃  |  |
| Forward Voltage      | Vf     | 3 mA       | :   | 1   | V    | 25 °C |  |
|                      |        |            |     |     |      | ,     |  |
|                      |        |            |     |     |      |       |  |
|                      |        |            | ]   |     |      |       |  |

## **MECHANICAL**

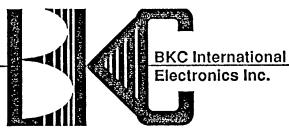


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#### **FEATURES**

Low forward voltage drop—low power consumption
Thirty years of proven reliability—one million hours mean time between failures (MTBF)
Very low noise level
Metallurgically bonded

### ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage
Peak Forward Current

Operating Temperature Range

Average Power Dissipation

75 Volts

500 mA

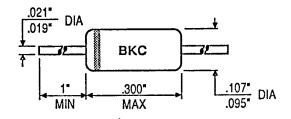
- 65 °C to 85 °C

80 mW

#### **ELECTRICAL CHARACTERISTICS**

|                      | Symbol | Conditions | Min | Max | Unit | T °C  |   |
|----------------------|--------|------------|-----|-----|------|-------|---|
| Peak Inverse Voltage | PIV    | 1 mA       | 75  |     | V    | 25 °C |   |
| Reverse Current      | lr .   | 10 V       |     | 50  | μΑ   | 25 °C |   |
| Reverse Current      | İr     | 50 V       |     | 850 | μΑ   | °C    |   |
| Forward Voltage      | Vf     | 5 mA       |     | 1   | V    | 25 °C |   |
|                      | }      |            |     | İ   |      |       |   |
|                      |        |            |     |     |      |       | İ |

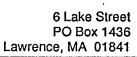
### **MECHANICAL**



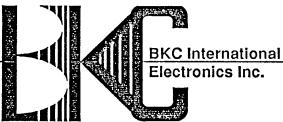
# Type No. 1N69A

T-01-07

# GOLD BONDED GERMANIUM DIODE



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#### **FEATURES**

Low forward voltage drop—low power consumption Thirty years of proven reliability—one million hours mean time between failures (MTBF) Very low noise level Metallurgically bonded

### ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage

Peak Forward Current

**Operating Temperature Range** 

Average Power Dissipation

75 Volts

500 mA

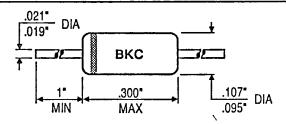
- 65 °C to 85 °C

80 mW

## **ELECTRICAL CHARACTERISTICS**

| ·                    | Symbol | Conditions | Min | Max | Unit | T°C   |  |
|----------------------|--------|------------|-----|-----|------|-------|--|
| Peak Inverse Voltage | PIV    | 1 mA       | 75  |     | V    | 25 °C |  |
| Reverse Current      | İr     | 10 V       |     | 30  | μΑ   | 25 °C |  |
| Reverse Current      | lr     | 50 V       | ı   | 500 | μΑ   | °C    |  |
| Forward Voltage      | Vf     | 5 mA       |     | 1   | ٧    | 25 °C |  |
|                      |        |            |     |     |      |       |  |
|                      |        |            |     |     |      |       |  |

### **MECHANICAL**



T-01-07

# **GOLD BONDED GERMANIUM DIODE**



#### **FEATURES**

Low forward voltage drop—low power consumption Thirty years of proven reliability—one million hours mean time between failures (MTBF) Very low noise level Metallurgically bonded

# ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage Peak Forward Current **Operating Temperature Range** Average Power Dissipation

125 Volts

500 mA

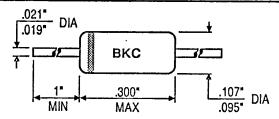
- 65 °C to 85 °C

80 mW

# **ELECTRICAL CHARACTERISTICS**

| Symbol | Conditions      | Min                            | Max                                | Unit                                      | T °C  |  |
|--------|-----------------|--------------------------------|------------------------------------|---|---|--|
| PIV    | 1 mA            | 125                            |                                    | V   | 25 °C   |  |
| lr     | 10 V            |                                | 25                                 | μА  | 25 °C   |  |
| lr     | 50 V            |                                | 300                                | μА  | °C  |  |
| Vf     | 3 mA            |                                | 1                                  | ·V  | 25 °C   |  |
|        |                 |                                |                                    |   |   |  |
|        |                 |                                |                                    |   |   |  |
|        | PIV<br>Ir<br>Ir | PIV 1 mA<br>Ir 10 V<br>Ir 50 V | PIV 1 mA 125<br>Ir 10 V<br>Ir 50 V | PIV 1 mA 125<br>Ir 10 V 25<br>Ir 50 V 300 | PIV 1 mA 125 V<br>Ir 10 V 25 μA<br>Ir 50 V 300 μA | PIV 1 mA 125 V 25 °C lr 10 V 25 °C μΑ 25 °C μΑ 25 °C μΑ °C |

## **MECHANICAL**



# Type No. 1N70A

T-01-07

# GOLD BONDED GERMANIUM DIODE



#### **FEATURES**

Low forward voltage drop—low power consumption
Thirty years of proven reliability—one million hours mean time between failures (MTBF)
Very low noise level
Metallurgically bonded

# ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage

125 Volts

Peak Forward Current

500 mA

Operating Temperature Range

- 65 °C to 85 °C

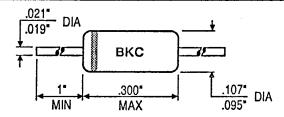
Average Power Dissipation

80 mW

# **ELECTRICAL CHARACTERISTICS**

|                      | Symbol | Conditions | Min | Max | Unit | T°C   |   |
|----------------------|--------|------------|-----|-----|------|-------|---|
| Peak Inverse Voltage | PIV    | 1 mA       | 125 |     | V    | 25 °C | İ |
| Reverse Current      | ir     | 10 V       |     | 25  | μΑ   | 25 °C |   |
| Reverse Current      | lr .   | 50 V       |     | 300 | μΑ   | °C    | ľ |
| Forward Voltage      | Vf     | 3 mA       |     | 1   | V    | 25 °C |   |
|                      |        |            |     |     |      |       |   |
|                      |        |            |     |     |      |       |   |

#### **MECHANICAL**



T-01-07

# GOLD BONDED GERMANIUM DIODE



#### **FEATURES**

Low forward voltage drop—low power consumption
Thirty years of proven reliability—one million hours mean time between failures (MTBF)
Very low noise level
Metallurgically bonded

# ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage

40 Volts

Peak Forward Current

500 mA

**Operating Temperature Range** 

- 65 °C to 85 °C

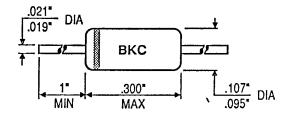
Average Power Dissipation

80 mW

### **ELECTRICAL CHARACTERISTICS**

|   | Symbol    | Conditions   | Min | Max | Unit    | 1℃             |   |
|---|-----------|--------------|-----|-----|---------|----------------|---|
| Peak Inverse Voltage<br>Reverse Current | PIV<br>Ir | 1 mA<br>30 V | 40  | 300 | V<br>μA | 25 °C<br>25 °C |   |
| Forward Voltage                         | Vf        | 15 mA        |     | 1   | ·V      | 25 °C          |   |
|   |           |              |     |     |         |                | i |

#### **MECHANICAL**



# GOLD BONDED GERMANIUM DIODE



#### **FEATURES**

Low forward voltage drop—low power consumption
Thirty years of proven reliability—one million hours mean time between failures (MTBF)
Very low noise level
Metallurgically bonded

## ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage
Peak Forward Current
Operating Temperature Range
Average Power Dissipation

125 Volts

500 mA

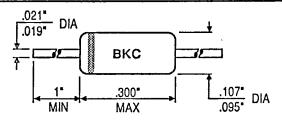
- 65 °C to 85 °C

80 mW

## **ELECTRICAL CHARACTERISTICS**

|                      | Symbol | Conditions | Min | Max | Unit | l T.℃ |   |
|----------------------|--------|------------|-----|-----|------|-------|---|
| Peak Inverse Voltage | PIV    | 1 mA       | 125 |     | V    | 25 °C |   |
| Reverse Current      | ir     | 50 V       |     | 50  | μΑ   | 25 °C |   |
| Forward Voltage      | Vf     | 2.5 mA     |     | 1   | V    | 25 °C | ļ |
|                      |        |            | }   |     |      |       |   |
|                      |        |            |     |     |      |       |   |
|                      |        |            |     |     |      |       |   |

## **MECHANICAL**



# Type No. 1N81

# GOLD BONDED GERMANIUM DIODE



#### **FEATURES**

Low forward voltage drop—low power consumption
Thirty years of proven reliability—one million hours mean time between failures (MTBF)
Very low noise level
Metallurgically bonded

### ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage
Peak Forward Current
Operating Temperature Range
Average Power Dissipation

50 Volts

500 mA

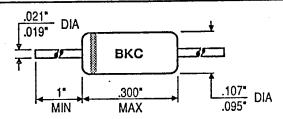
- 65 °C to 85 °C

80 mW

## **ELECTRICAL CHARACTERISTICS**

|  | Symbol          | Conditions           | Mill | IVIAX | Utill        | 1 0                     | l |
|--|-----------------|----------------------|------|-------|--------------|-------------------------|---|
| Peak Inverse Voltage<br>Reverse Current<br>Forward Voltage | PIV<br>Ir<br>Vf | 1 mA<br>10 V<br>3 mA | 50   | 10    | V<br>μA<br>V | 25 °C<br>25 °C<br>25 °C |   |
|  |                 | }                    | ł    | 1     | l            |                         | • |

## **MECHANICAL**



# Type No. 1N81A

T-01-07

# GOLD BONDED GERMANIUM DIODE



#### **FEATURES**

Low forward voltage drop—low power consumption
Thirty years of proven reliability—one million hours mean time between failures (MTBF)
Very low noise level
Metallurgically bonded

# ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage

50 Volts

Peak Forward Current

500 mA

Operating Temperature Range

- 65 °C to 85 °C

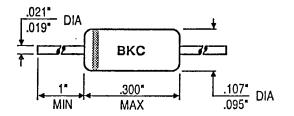
Average Power Dissipation

80 mW

#### **ELECTRICAL CHARACTERISTICS**

| •                    | Symbol | Conditions | Min | Max | Unit | T°C   |  |
|----------------------|--------|------------|-----|-----|------|-------|--|
| Peak Inverse Voltage | PIV    | 1 mA       | 50  |     | ٧    | 25 °C |  |
| Reverse Current      | lr     | 10 V       |     | 10  | μΑ   | 25 °C |  |
| Forward Voltage      | Vf     | 3 mA       |     | 1   | V    | 25 °C |  |
| ·                    |        |            |     |     | ,    |       |  |
|                      |        |            |     |     |      |       |  |
|                      |        |            |     |     |      |       |  |

### **MECHANICAL**



# Type No. 1N84

# GOLD BONDED GERMANIUM DIODE



#### **FEATURES**

Low forward voltage drop—low power consumption
Thirty years of proven reliability—one million hours mean time between failures (MTBF)
Very low noise level
Metallurgically bonded

# ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage
Peak Forward Current
Operating Temperature Range
Average Power Dissipation

12 Volts

500 mA

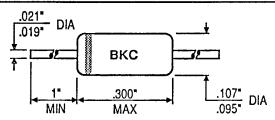
- 65 °C to 85 °C

80 mW

## **ELECTRICAL CHARACTERISTICS**

|                      | Symbol | Conditions | Min | Max | Unit | T°C   |  |
|----------------------|--------|------------|-----|-----|------|-------|--|
| Peak Inverse Voltage | PIV    | 1 mA       | 12  |     | V    | 25 °C |  |
| Reverse Current      | lr Ir  | 5 V        |     | 100 | μΑ   | 25 °C |  |
| Forward Voltage      | Vf     | 60 mA      |     | 1   | V    | 25 °C |  |
|                      |        |            |     |     |      | •     |  |
|                      |        |            |     |     |      | ,     |  |
|                      |        |            |     |     |      |       |  |

# **MECHANICAL**



# GOLD BONDED GERMANIUM DIODE



#### **FEATURES**

Low forward voltage drop—low power consumption Thirty years of proven reliability—one million hours mean time between failures (MTBF) Very low noise level Metallurgically bonded

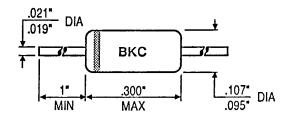
# ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage Peak Forward Current - 65 °C to 85 °C **Operating Temperature Range** Average Power Dissipation

## ELECTRICAL CHARACTERISTICS

| •                    | Symbol | Conditions | Min | Max | Unit | T°C   | ĺ |
|----------------------|--------|------------|-----|-----|------|-------|---|
| Peak Inverse Voltage | PIV    | 1 mA       | 70  |     | V    | 25 °C |   |
| Reverse Current      | lr     | 10 V       |     | 50  | μΑ   | 25 °C |   |
| Reverse Current      | lr     | 50 V       |     | 833 | μΑ   | °C    |   |
| Forward Voltage      | Vf     | 4 mA       |     | 1   | V    | 25 °C |   |
|                      |        |            |     |     |      |       |   |
| <b>₹</b>             |        |            |     |     |      |       |   |

#### **MECHANICAL**



Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

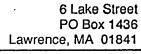
70 Volts

500 mA

80 mW

# Type No. 1N87A

# **GOLD BONDED GERMANIUM DIODE**



Telephone (617) 681-0392 TeleFax (617) 681-9135 Telex 928377



#### **FEATURES**

Low forward voltage drop—low power consumption
Thirty years of proven reliability—one million hours mean time between failures (MTBF)
Very low noise level
Metallurgically bonded

### ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage

22.5 Volts

Peak Forward Current

500 mA

**Operating Temperature Range** 

- 65 °C to 85 °C

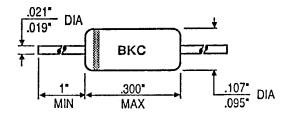
Average Power Dissipation

80 mW

### **ELECTRICAL CHARACTERISTICS**

| •  | Symbol          | Conditions         | Min  | Max | Unit         | l 1.℃                   |  |
|--|-----------------|--------------------|------|-----|--------------|-------------------------|--|
| Peak Inverse Voltage<br>Reverse Current<br>Forward Voltage | PIV<br>Ir<br>Vf | 1 mA<br>V<br>.1 mA | 22.5 | .25 | V<br>μA<br>V | 25 °C<br>25 °C<br>25 °C |  |
|  |                 |                    |      |     |              |                         |  |

#### **MECHANICAL**



# Type No.1N88

# **GOLD BONDED GERMANIUM DIODE**



#### **FEATURES**

Low forward voltage drop—low power consumption Thirty years of proven reliability—one million hours mean time between failures (MTBF) Very low noise level Metallurgically bonded

## ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage Peak Forward Current 85 Volts

500 mA

**Operating Temperature Range** 

- 65 °C to 85 °C

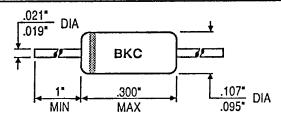
Average Power Dissipation

80 mW

## **ELECTRICAL CHARACTERISTICS**

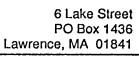
|                      | Symbol | Conditions | Min | Max | Unit | T℃    |  |
|----------------------|--------|------------|-----|-----|------|-------|--|
| Peak Inverse Voltage | PIV    | 1 mA       | 85  |     | V    | 25 °C |  |
| Reverse Current      | lr .   | 50 V       |     | 100 | μΑ   | 25 °C |  |
| Forward Voltage      | Vf     | 2.5 mA     |     | 1   | V    | 25 °C |  |
|                      |        |            |     |     |      | •     |  |
|                      |        |            |     | İ   |      | ٠     |  |
|                      |        |            |     |     |      |       |  |

## **MECHANICAL**



# Type No.1N89

# **GOLD BONDED GERMANIUM DIODE**



Telephone (617) 681-0392 TeleFax (617) 681-9135 Telex 928377



03E D

#### **FEATURES**

Low forward voltage drop—low power consumption Thirty years of proven reliability—one million hours mean time between failures (MTBF) Very low noise level Metallurgically bonded

#### ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage

100 Volts

Peak Forward Current

500 mA

**Operating Temperature Range** 

- 65 °C to 85 °C

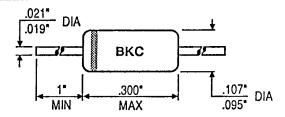
Average Power Dissipation

80 mW

#### **ELECTRICAL CHARACTERISTICS**

|                      | Symbol | Conditions | Min | Max | Unit | T°C   |  |
|----------------------|--------|------------|-----|-----|------|-------|--|
| Peak Inverse Voltage | PIV    | 1 mA       | 100 |     | V    | 25 °C |  |
| Reverse Current      | lr     | 5 V        |     | 8   | μΑ   | 25 °C |  |
| Forward Voltage      | Vf     | 3.5 mA     |     | 1   | V    | 25 °C |  |
|                      |        |            |     |     |      |       |  |
|                      |        |            |     |     |      |       |  |
|                      |        |            |     |     |      |       |  |

#### **MECHANICAL**



# Type No.1N90

# GOLD BONDED GERMANIUM DIODE

03E D



#### **FEATURES**

Low forward voltage drop—low power consumption Thirty years of proven reliability—one million hours mean time between failures (MTBF) Very low noise level Metallurgically bonded

#### ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage Peak Forward Current **Operating Temperature Range** Average Power Dissipation

75 Volts 500 mA

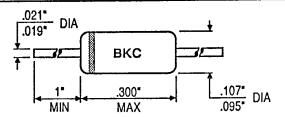
- 65 °C to 85 °C

80 mW

## **ELECTRICAL CHARACTERISTICS**

|                      | Symbol | Conditions | Min | мах | Unit | 1 10  | l |
|----------------------|--------|------------|-----|-----|------|-------|---|
| Peak Inverse Voltage | PIV    | 1 mA       | 75  | 000 | V    | 25 °C |   |
| Reverse Current      | Ir     | 50 V       |     | 800 | μΑ   | 25 °C |   |
| Forward Voltage      | Vf     | 5 mA       |     | 1   | V    | 25 °C |   |
| _                    |        |            |     |     |      | •     |   |
|                      |        |            |     |     |      |       | ĺ |
|                      |        |            |     |     |      |       |   |
|                      |        |            | l   | I   | 1    |       | ı |

## **MECHANICAL**



# **GOLD BONDED GERMANIUM DIODE**



#### **FEATURES**

Low forward voltage drop—low power consumption Thirty years of proven reliability—one million hours mean time between failures (MTBF) Very low noise level Metallurgically bonded

#### ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage Peak Forward Current Operating Temperature Range Average Power Dissipation

75 Volts

500 mA

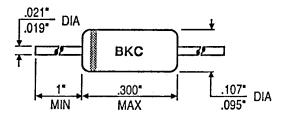
- 65 °C to 85 °C

80 mW

## **ELECTRICAL CHARACTERISTICS**

|                      | Symbol | Conditions | Min | Max | Unit | T°C   |  |
|----------------------|--------|------------|-----|-----|------|-------|--|
| Peak Inverse Voltage | PIV    | 1 mA       | 75  |     | V    | 25 °C |  |
| Reverse Current      | lr     | 50 V       | į   | 800 | μΑ   | 25 °C |  |
| Forward Voltage      | Vf     | 10 mA      |     | 1   | V    | 25 °C |  |
|                      |        |            |     |     |      | •     |  |
|                      |        |            |     |     |      |       |  |
|                      |        |            |     |     |      |       |  |

### MECHANICAL



# GOLD BONDED GERMANIUM DIODE



#### **FEATURES**

Low forward voltage drop—low power consumption
Thirty years of proven reliability—one million hours mean time between failures (MTBF)
Very low noise level
Metallurgically bonded

### ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage
Peak Forward Current
Operating Temperature Range
Average Power Dissipation

75 Volts 500 mA

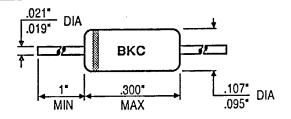
- 65 °C to 85 °C

80 mW

# **ELECTRICAL CHARACTERISTICS**

|                      | Symbol | Conditions | Min | мах | Unit | 1 10  | ĺ |
|----------------------|--------|------------|-----|-----|------|-------|---|
| Peak Inverse Voltage | PIV    | 1 mA       | 75  |     | ٧    | 25 °C |   |
| Reverse Current      | lr .   | 50 V       |     | 800 | μΑ   | 25 °C |   |
| Forward Voltage      | Vf     | 20 mA      |     | 1   | V    | 25 °C |   |
| <u>-</u>             |        |            |     |     |      |       |   |
|                      |        |            |     |     |      |       |   |
|                      |        |            |     |     |      |       |   |

# **MECHANICAL**



# Type No. 1N96A

# GOLD BONDED GERMANIUM DIODE



#### **FEATURES**

Low forward voltage drop-low power consumption Thirty years of proven reliability—one million hours mean time between failures (MTBF) Very low noise level Metallurgically bonded

### ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

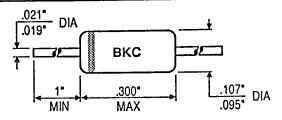
Peak Inverse Voltage Peak Forward Current **Operating Temperature Range** Average Power Dissipation

60 Volts 500 mA - 65 °C to 85 °C 80 mW

## **ELECTRICAL CHARACTERISTICS**

| Symbol Conditions Min Max Office 1 C   | 1 |
|--|---|
| Peak Inverse Voltage       PIV       1 mA       60       V       25 °C         Reverse Current       Ir       50 V       500 μA       25 °C         Forward Voltage       Vf       40 mA       1       V       25 °C |   |

#### **MECHANICAL**



03E D

# GOLD BONDED GERMANIUM DIODE



#### **FEATURES**

Low forward voltage drop—low power consumption Thirty years of proven reliability—one million hours mean time between failures (MTBF) Very low noise level Metallurgically bonded

# ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage Peak Forward Current **Operating Temperature Range** Average Power Dissipation

100 Volts

500 mA

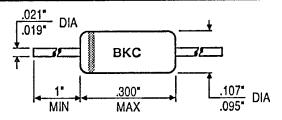
- 65 °C to 85 °C

80 mW

## **ELECTRICAL CHARACTERISTICS**

|                      | Symbol | Conditions | Min | Max | Unit | T °C  |   |
|----------------------|--------|------------|-----|-----|------|-------|---|
| Peak Inverse Voltage | PIV    | 1 mA       | 100 |     | ٧    | 25 °C |   |
| Reverse Current      | Ir     | 50 V       |     | 100 | μΑ   | 25 °C | ŀ |
| Forward Voltage      | Vf     | 10 mA      |     | 1   | ٧    | 25 °C |   |
|                      |        |            |     |     |      | •     |   |
|                      |        |            | ļ   |     |      |       |   |
|                      |        |            |     |     |      |       |   |

### **MECHANICAL**



## GOLD BONDED GERMANIUM DIODE



#### **FEATURES**

Low forward voltage drop—low power consumption Thirty years of proven reliability—one million hours mean time between failures (MTBF) Very low noise level Metallurgically bonded

### ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage Peak Forward Current **Operating Temperature Range** Average Power Dissipation

100 Volts

500 mA

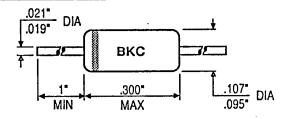
- 65 °C to 85 °C

80 mW

# **ELECTRICAL CHARACTERISTICS**

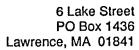
|                      | Symbol | Conditions | Min | Max | Unit | T°C   |  |
|----------------------|--------|------------|-----|-----|------|-------|--|
| Peak Inverse Voltage | PIV    | 1 mA       | 100 |     | ٧    | 25 °C |  |
| Reverse Current      | lr .   | 50 V       |     | 100 | μΑ   | 25 °C |  |
| Forward Voltage      | Vf     | 20 mA      |     | 1   | V    | 25 °C |  |
|                      |        |            |     |     |      | •     |  |
|                      |        |            |     |     |      |       |  |
|                      |        |            |     |     |      |       |  |

# MECHANICAL



# Type No. 1N98A

# GOLD BONDED GERMANIUM DIODE



Telephone (617) 681-0392 TeleFax (617) 681-9135 Telex 928377



BKC International Electronics Inc.

### **FEATURES**

Low forward voltage drop—low power consumption Thirty years of proven reliability—one million hours mean time between failures (MTBF) Very low noise level Metallurgically bonded

### ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

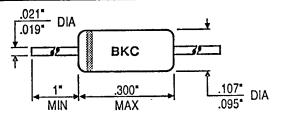
Peak Inverse Voltage Peak Forward Current Operating Temperature Range Average Power Dissipation

250 Volts 500 mA - 65 °C to 85 °C 80 mW

# **ELECTRICAL CHARACTERISTICS**

| •  | Symbol          | Conditions            | Min | Max | Unit         | 1℃                      |  |
|--|-----------------|-----------------------|-----|-----|--------------|-------------------------|--|
| Peak Inverse Voltage<br>Reverse Current<br>Forward Voltage | PIV<br>Ir<br>Vf | 1 mA<br>50 V<br>40 mA | 250 | 100 | V<br>μA<br>V | 25 °C<br>25 °C<br>25 °C |  |

## MECHANICAL



# GOLD BONDED GERMANIUM DIODE



#### **FEATURES**

Low forward voltage drop—low power consumption Thirty years of proven reliability—one million hours mean time between failures (MTBF) Very low noise level Metallurgically bonded

# ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage Peak Forward Current Operating Temperature Range Average Power Dissipation

100 Volts

500 mA

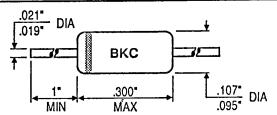
- 65 °C to 85 °C

80 mW

# **ELECTRICAL CHARACTERISTICS**

|  | Symbol          | Conditions            | Min | Max     | Unit         | T°C                     |  |
|--|-----------------|-----------------------|-----|---------|--------------|-------------------------|--|
| Peak Inverse Voltage<br>Reverse Current<br>Forward Voltage | PIV<br>Ir<br>Vf | 1 mA<br>50 V<br>10 mA | 100 | 50<br>1 | V<br>μΑ<br>V | 25 °C<br>25 °C<br>25 °C |  |
|  |                 |                       |     | ,       |              |                         |  |

### **MECHANICAL**



# **GOLD BONDED GERMANIUM DIODE**



#### **FEATURES**

Low forward voltage drop—low power consumption Thirty years of proven reliability—one million hours mean time between failures (MTBF) Very low noise level Metallurgically bonded

## ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage Peak Forward Current **Operating Temperature Range** Average Power Dissipation

100 Volts 500 mA

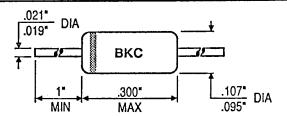
- 65 °C to 85 °C

80 mW

## **ELECTRICAL CHARACTERISTICS**

|                      | Symbol | Conditions | Min | мах | Unit | 1 %     |  |
|----------------------|--------|------------|-----|-----|------|---------|--|
| Peak Inverse Voltage | PIV    | 1 mA       | 100 |     | V    | 25 °C   |  |
| Reverse Current      | ir     | 50 V       |     | 5   | μΑ   | 25 °C   |  |
| Forward Voltage      | Vf     | 20 mA      |     | 1   | V    | . 25 °C |  |
|                      |        |            |     |     |      |         |  |
|                      |        |            |     | -   |      |         |  |
|                      |        |            |     |     |      |         |  |

#### MECHANICAL



BKC INTERNATIONAL ELECTRONICS, INC. 6 LAKE STREET, LAWRENCE, MA 01841 TEL NO. (508) 681-0392

#### ENGINEERING DATA SHEET

TYPE

#### 1N100A

| G   | OLD BONI                    | DED, GER   | MANIUM                      | , DIODE                            |  |  |
|---|-----------------------------|--|-----------------------------|------------------------------------|--|--|
|   | ABSOLU'                     | re Maxim   | UM RAT                      | INGS                               |  |  |
| PEAK REVERSE VOLTAGE  |                             |  |                             | 100V                               |  |  |
| CONTINUOUS INVERSE OPERA  | 807                         |  |                             |                                    |  |  |
| RECURRENT PEAK FORWARD (60 CYCLES, 1/2 WAVE)                      | 250mA                       |  |                             |                                    |  |  |
| FORWARD SURGE CURRENT (   | 400mA                       |  |                             |                                    |  |  |
| POWER DISSIPATION   |                             | Wm08   |                             |                                    |  |  |
| DERATING FACTOR ABOVE +25 DEGREES CELSUIS 10mW/10 DEGREES CELSIUS |                             |  |                             |                                    |  |  |
| OPERATING TEMPERATURE -78 TO +90 DEGREES CELSIUS                  |                             |  |                             |                                    |  |  |
| STORAGE TEMPERATURE   |                             |  |                             | -78 TO +100 DEGREES CELSIUS        |  |  |
|   |                             | HARACTE  | RISTIC                      | 8                                  |  |  |
| PARA COND TA LIMITS MIN. MAX.                                     | 40mA<br>25C                 | 5 <b>V</b>   | 50V<br>25C                  | 1mA<br>25C<br>100V                 |  |  |
|   | GLA<br>LEAD<br>LEAD<br>BODY | KAGE CON SS CASE (INCH LENGTH DIAMETER LENGTH DIAMETER | JEDEC<br>ES)<br>1.12<br>.02 | DO-7<br>5 MAX<br>0 +002<br>70 MAX. |  |  |

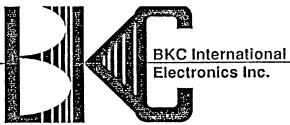
BLACK CATHODE BAND & BLACK DIGITAL PRINT

MARKING

# GOLD BONDED GERMANIUM DIODE

6 Lake Street PO Box 1436 Lawrence, MA 01841

Telephone (617) 681-0392 TeleFax (617) 681-9135 Telex 928377



#### **FEATURES**

Low forward voltage drop—low power consumption Thirty years of proven reliability—one million hours mean time between failures (MTBF) Very low noise level Metallurgically bonded

## ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage

125 Volts

Peak Forward Current

500 mA

Operating Temperature Range

- 65 °C to 85 °C

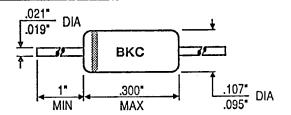
Average Power Dissipation

80 mW

#### **ELECTRICAL CHARACTERISTICS**

|                      | Symbol | Conditions | Min | Max | Unit | T°C   |  |
|----------------------|--------|------------|-----|-----|------|-------|--|
| Peak Inverse Voltage | PIV    | 1 mA       | 125 |     | V    | 25 °C |  |
| Reverse Current      | lr     | 25 V       |     | 3   | μΑ   | 25 °C |  |
| Forward Voltage      | Vf     | 15 mA      |     | 1   | V    | 25 °C |  |
|                      |        |            |     |     |      | •     |  |
|                      |        |            |     |     |      |       |  |
|                      |        |            |     |     |      | 1 .   |  |

#### MECHANICAL



### GOLD BONDED GERMANIUM DIODE



#### **FEATURES**

Low forward voltage drop—low power consumption Thirty years of proven reliability—one million hours mean time between failures (MTBF) Very low noise level Metallurgically bonded

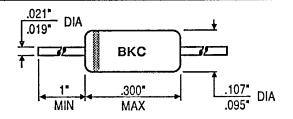
### ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage Peak Forward Current **Operating Temperature Range** - 65 °C to 85 °C Average Power Dissipation

#### **ELECTRICAL CHARACTERISTICS**

|                      | Symbol | Conditions | Min | Max | Unit | l 1°C |  |
|----------------------|--------|------------|-----|-----|------|-------|--|
| Peak Inverse Voltage | PIV    | 1 mA       | 12  |     | V    | 25 °C |  |
| Reverse Current      | lr     | 5 V        |     | 100 | μΑ   | 25 °C |  |
| Forward Voltage      | Vf     | 30 mA      |     | 1   | V    | 25 °C |  |
|                      |        |            |     |     |      |       |  |
|                      |        |            |     |     |      |       |  |
|                      |        | •          |     |     |      |       |  |

### **MECHANICAL**



Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

12 Volts

500 mA

80 mW

### **GOLD BONDED GERMANIUM DIODE**



#### **FEATURES**

Low forward voltage drop—low power consumption Thirty years of proven reliability—one million hours mean time between failures (MTBF) Very low noise level Metallurgically bonded

#### ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage Peak Forward Current **Operating Temperature Range** Average Power Dissipation

12 Volts

500 mA

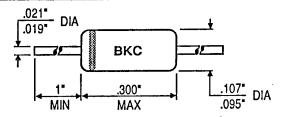
- 65 °C to 85 °C

80 mW

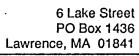
### **ELECTRICAL CHARACTERISTICS**

|   | Symbol    | Conditions    | Min | Max | Unit    | l T.℃          |  |
|---|-----------|---------------|-----|-----|---------|----------------|--|
| Peak Inverse Voltage<br>Reverse Current | PIV<br>Ir | 1 mA<br>5 V . | 12  | 100 | V<br>μA | 25 °C<br>25 °C |  |
| Forward Voltage                         | Vf        | 30 mA         |     | 1   | V       | 25 °C          |  |

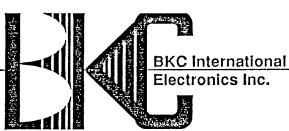
#### **MECHANICAL**



### **GOLD BONDED GERMANIUM DIODE**



Telephone (617) 681-0392 TeleFax (617) 681-9135 Telex 928377



#### **FEATURES**

Low forward voltage drop—low power consumption Thirty years of proven reliability—one million hours mean time between failures (MTBF) Very low noise level Metallurgically bonded

#### ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage

10 Volts

Peak Forward Current

500 mA

Operating Temperature Range

- 65 °C to 85 °C

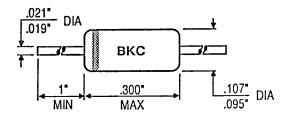
Average Power Dissipation

80 mW

### **ELECTRICAL CHARACTERISTICS**

|                      | Syllibol | Conditions | IVIIII | IVIAX | Offit | '     | l |
|----------------------|----------|------------|--------|-------|-------|-------|---|
| Peak Inverse Voltage | PIV      | 1 mA       | 10     |       | V     | 25 °C |   |
| Reverse Current      | lr .     | 10 V       |        | 200   | μΑ    | 25 °C |   |
| Forward Voltage      | Vf       | 150 mA     |        | 1     | V     | 25 °C |   |
|                      |          | <u> </u>   |        |       |       |       |   |
|                      |          |            |        |       |       |       |   |
|                      |          |            |        |       |       |       |   |

#### MECHANICAL



## **GOLD BONDED GERMANIUM DIODE**



#### **FEATURES**

Low forward voltage drop—low power consumption Thirty years of proven reliability—one million hours mean time between failures (MTBF) Very low noise level Metallurgically bonded

## ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage Peak Forward Current **Operating Temperature Range** Average Power Dissipation

50 Volts

500 mA

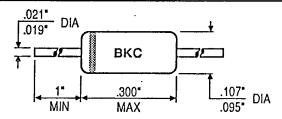
- 65 °C to 85 °C

80 mW

### **ELECTRICAL CHARACTERISTICS**

|  | Symbol          | Conditions            | Min | Max | Unit         | T°C                     |  |
|--|-----------------|-----------------------|-----|-----|--------------|-------------------------|--|
| Peak Inverse Voltage<br>Reverse Current<br>Forward Voltage | PIV<br>Ir<br>Vf | 1 mA<br>50 V<br>50 mA | 50  | 200 | V<br>μΑ<br>V | 25 °C<br>25 °C<br>25 °C |  |
|  |                 |                       |     |     |              |                         |  |

### **MECHANICAL**



## GOLD BONDED GERMANIUM DIODE



#### **FEATURES**

Low forward voltage drop—low power consumption Thirty years of proven reliability—one million hours mean time between failures (MTBF) Very low noise level Metallurgically bonded

## ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

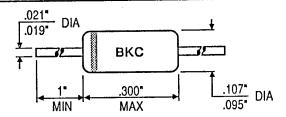
Peak Inverse Voltage Peak Forward Current **Operating Temperature Range** Average Power Dissipation

70 Volts 500 mA - 65 °C to 85 °C 80 mW

#### **ELECTRICAL CHARACTERISTICS**

|                      | Symbol | Conditions | IVIIII | IVIAX | Uill | 1 0   |  |
|----------------------|--------|------------|--------|-------|------|-------|--|
| Peak Inverse Voltage | PIV    | 1 mA       | 70     |       | V    | 25 °C |  |
| Reverse Current      | lr     | 10 V       |        | 25    | μΑ   | 55 °C |  |
| Reverse Current      | lr lr  | 50 V       |        | 125   | μΑ   | 55 °C |  |
| Forward Voltage      | Vf     | 5 mA       | 1      | 1     | V    | 25 °C |  |
| •                    |        |            |        |       |      |       |  |
|                      |        |            |        |       |      |       |  |

### **MECHANICAL**



### GOLD BONDED GERMANIUM DIODE



#### **FEATURES**

Low forward voltage drop—low power consumption Thirty years of proven reliability—one million hours mean time between failures (MTBF) Very low noise level Metallurgically bonded

#### ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

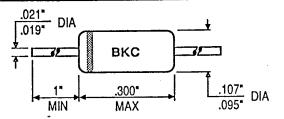
Peak Inverse Voltage Peak Forward Current Operating Temperature Range Average Power Dissipation

70 Volts 500 mA - 65 °C to 85 °C 80 mW

### **ELECTRICAL CHARACTERISTICS**

| •                    | Symbol | Conditions | IVIIII | IVIAX | Oill | ' '   |  |
|----------------------|--------|------------|--------|-------|------|-------|--|
| Peak Inverse Voltage | PIV    | 1 mA       | 70     |       | ٧    | 25 °C |  |
| Reverse Current      | lr     | 10 V       |        | 50    | μΑ   | 55 °C |  |
| Reverse Current      | lr     | 50 V       |        | 250   | μΑ   | 55 °C |  |
| Forward Voltage      | Vf     | 5 mA       |        | 1     | V    | 25 °C |  |
| •                    |        |            |        |       |      |       |  |
|                      |        |            |        |       |      |       |  |

#### MECHANICAL



### GOLD BONDED GERMANIUM DIODE



#### **FEATURES**

Low forward voltage drop—low power consumption Thirty years of proven reliability—one million hours mean time between failures (MTBF) Very low noise level Metallurgically bonded

#### ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage Peak Forward Current Operating Temperature Range Average Power Dissipation

70 Volts 500 mA

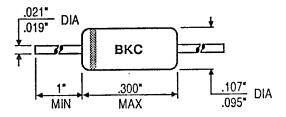
- 65 °C to 85 °C

80 mW

### **ELECTRICAL CHARACTERISTICS**

|                      | Symbol | Conditions | Min | Max | Unit | 1 00  |  |
|----------------------|--------|------------|-----|-----|------|-------|--|
| Peak Inverse Voltage | PIV    | 1 mA       | 70  |     | V    | 25 °C |  |
| Reverse Current      | Ir     | 10 V       |     | 25  | μΑ   | 55 °C |  |
| Reverse Current      | Îr     | 50 V       |     | 125 | μΑ   | 55 °C |  |
| Forward Voltage      | Vf     | 2.5 mA     |     | 1   | V    | 25 °C |  |
| -                    |        |            |     |     |      |       |  |
|                      |        |            |     |     |      |       |  |

#### MECHANICAL



### GOLD BONDED GERMANIUM DIODE



#### **FEATURES**

Low forward voltage drop—low power consumption Thirty years of proven reliability—one million hours mean time between failures (MTBF) Very low noise level Metallurgically bonded

### ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage Peak Forward Current Operating Temperature Range Average Power Dissipation

70 Volts

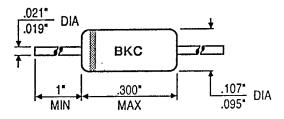
500 mA - 65 °C to 85 °C

80 mW

### **ELECTRICAL CHARACTERISTICS**

|                      | Symbol | Conditions | Min | Max | Unit | T°C   |  |
|----------------------|--------|------------|-----|-----|------|-------|--|
| Peak Inverse Voltage | PIV    | 1 mA       | 70  |     | V    | 25 °C |  |
| Reverse Current      | lr     | 10 V       |     | 50  | μA·  | 55 °C |  |
| Reverse Current      | lr     | 50 V       |     | 500 | μΑ   | 55 °C |  |
| Forward Voltage      | Vf     | 2.5 mA     |     | 1   | V    | 25 °C |  |
|                      |        | 1          |     |     |      |       |  |
|                      |        |            |     |     |      |       |  |

#### MECHANICAL



T-01-07

### GOLD BONDED GERMANIUM DIODE



#### **FEATURES**

Low forward voltage drop—low power consumption Thirty years of proven reliability—one million hours mean time between failures (MTBF) Very low noise level Metallurgically bonded

#### ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage Peak Forward Current **Operating Temperature Range** Average Power Dissipation

70 Volts

500 mA

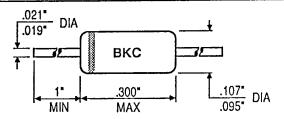
- 65 °C to 85 °C

80 mW

### **ELECTRICAL CHARACTERISTICS**

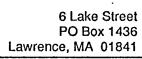
|                      | Symbol | Conditions | Min | Max | Unit | T°C   |  |
|----------------------|--------|------------|-----|-----|------|-------|--|
| Peak Inverse Voltage | PIV    | 1 mA       | 70  |     | ٧    | 25 °C |  |
| Reverse Current      | lr     | 10 V       |     | 100 | μΑ   | 55 °C |  |
| Reverse Current      | lr     | 50 V       |     | 500 | μΑ   | 55 °C |  |
| Forward Voltage      | Vf     | 2.5 mA     |     | 1   | V    | 25 °C |  |
|                      |        |            |     |     |      |       |  |
|                      |        |            |     |     |      |       |  |

#### MECHANICAL



T-01-07

### **GOLD BONDED GERMANIUM DIODE**



Telephone (617) 681-0392 TeleFax (617) 681-9135 Telex 928377



#### **FEATURES**

Low forward voltage drop—low power consumption
Thirty years of proven reliability—one million hours mean time between failures (MTBF)
Very low noise level
Metallurgically bonded

### ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage

75 Volts

Peak Forward Current

500 mA

**Operating Temperature Range** 

- 65 °C to 85 °C

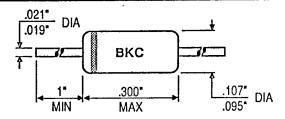
Average Power Dissipation

80 mW

#### **ELECTRICAL CHARACTERISTICS**

|                      | Symbol | Conditions | Min | Max | Unit | Т℃       |  |
|----------------------|--------|------------|-----|-----|------|----------|--|
| Peak Inverse Voltage | PIV    | 1 mA       | 75  |     | V    | 25 °C    |  |
| Reverse Current      | lr .   | 50 V       |     | 100 | μΑ   | 25 °C    |  |
| Forward Voltage      | Vf     | 5 mA       |     | 1   | V    | 25 °C    |  |
|                      |        |            |     |     |      |          |  |
| •                    |        |            |     | İ   |      |          |  |
| •                    |        |            |     |     |      | <u> </u> |  |

#### **MECHANICAL**



### GOLD BONDED GERMANIUM DIODE



#### **FEATURES**

Low forward voltage drop—low power consumption Thirty years of proven reliability—one million hours mean time between failures (MTBF) Very low noise level Metallurgically bonded

### ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

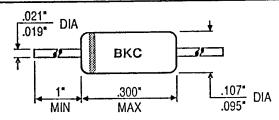
Peak Inverse Voltage Peak Forward Current **Operating Temperature Range** Average Power Dissipation

75 Volts 500 mA - 65 °C to 85 °C 80 mW

### **ELECTRICAL CHARACTERISTICS**

|   | Symbol    | Conditions   | Min | Max | Unit    | T °C           |  |
|---|-----------|--------------|-----|-----|---------|----------------|--|
| Peak Inverse Voltage<br>Reverse Current | PIV<br>Ir | 1 mA<br>50 V | 75  | 100 | V<br>μΑ | 25 °C<br>25 °C |  |
| Forward Voltage                         | Vf        | 10 mA        |     | 1   | V       | 25 °C          |  |

### **MÉCHANICAL**



T-01-07

# GOLD BONDED GERMANIUM DIODE

6 Lake Street PO Box 1436 Lawrence, MA 01841

Telephone (617) 681-0392 TeleFax (617) 681-9135 Telex 928377



### **FEATURES**

Low forward voltage drop—low power consumption
Thirty years of proven reliability—one million hours mean time between failures (MTBF)
Very low noise level
Metallurgically bonded

# ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

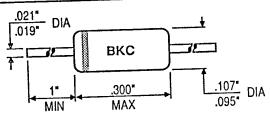
Peak Inverse Voltage
Peak Forward Current
Operating Temperature Range
Average Power Dissipation

75 Volts 500 mA - 65 °C to 85 °C 80 mW

## **ELECTRICAL CHARACTERISTICS**

| Peak Inverse Voltage               | Symbol<br>PIV<br>Ir | Conditions 1 mA 50 V | Min<br>75 | Max 1 | Unit<br>V<br>μΑ | 1 °C<br>25 °C<br>25 °C |  |
|------------------------------------|---------------------|----------------------|-----------|-------|-----------------|------------------------|--|
| Reverse Current<br>Forward Voltage | <br>Vf              | 20 mA                |           | 1     | V               | 25 °C                  |  |

### **MECHANICAL**



## Type No.1N118A

T-01-07

## **GOLD BONDED GERMANIUM DIODE**



#### **FEATURES**

Low forward voltage drop—low power consumption
Thirty years of proven reliability—one million hours mean time between failures (MTBF)
Very low noise level
Metallurgically bonded

### ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage
Peak Forward Current
Operating Temperature Range
Average Power Dissipation

75 Volts

500 mA

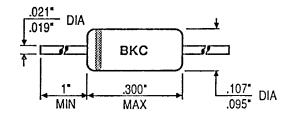
- 65 °C to 85 °C

80 mW

### **ELECTRICAL CHARACTERISTICS**

|                      | Symbol | Conditions | Min | Max | Unit | T°C   | ı |
|----------------------|--------|------------|-----|-----|------|-------|---|
| Peak Inverse Voltage | PIV    | 1 mA       | 75  |     | ٧    | 25 °C | ı |
| Reverse Current      | lr     | 50 V       |     | 100 | μΑ   | 25 °C |   |
| Forward Voltage      | Vf     | 40 mA      |     | 1   | V    | 25 °C | ı |
|                      |        |            |     |     |      |       |   |
|                      |        |            |     |     |      |       |   |
|                      |        |            |     |     |      |       |   |

#### **MECHANICAL**



## GOLD BONDED GERMANIUM DIODE



#### **FEATURES**

Low forward voltage drop—low power consumption Thirty years of proven reliability—one million hours mean time between failures (MTBF) Very low noise level Metallurgically bonded

### ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage **Peak Forward Current Operating Temperature Range** Average Power Dissipation

60 Volts 500 mA

- 65 °C to 85 °C

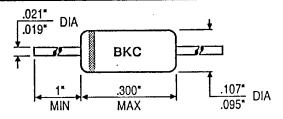
80 mW

## **ELECTRICAL CHARACTERISTICS**

|                      | Symbol | Conditions | Min | Max | Unit | 1 °C  | ĺ |
|----------------------|--------|------------|-----|-----|------|-------|---|
| Peak Inverse Voltage | PIV    | 1 mA       | 60  |     | V    | 25 °C |   |
| Reverse Current      | lr     | 50 V       |     | 125 | μΑ   | 55 °C |   |
| Forward Voltage      | Vf     | 5 mA       |     | 1   | ٧    | 25 °C |   |
| Reverse Recovery     | Trr    | See note   |     | 500 |      |       |   |
|                      |        |            |     |     |      |       |   |

**NOTE:** If = 30, Vr = -35, Recover to 50 k $\Omega$ .

#### **MECHANICAL**



T-03-07

### **GOLD BONDED GERMANIUM DIODE**



#### **FEATURES**

Low forward voltage drop—low power consumption
Thirty years of proven reliability—one million hours mean time between failures (MTBF)
Very low noise level
Metallurgically bonded

#### ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage
Peak Forward Current
Operating Temperature Range
Average Power Dissipation

60 Volts 500 mA

- 65 °C to 85 °C

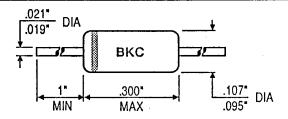
80 mW

### **ELECTRICAL CHARACTERISTICS**

|                      | Symbol | Conditions | Min | Max | Unit | T°C   | l |
|----------------------|--------|------------|-----|-----|------|-------|---|
| Peak Inverse Voltage | PIV    | 1 mA       | 60  |     | V    | 25 °C |   |
| Reverse Current      | lr     | 50 V       |     | 250 | μА   | 55 °C |   |
| Forward Voltage      | Vf     | 5 mA       |     | 1   | V    | 25 °C |   |
| Reverse Recovery     | Trr    | See note   |     | 500 |      |       |   |
| ,                    |        |            |     |     |      |       |   |
| ·                    | I      |            |     | 1   | i    |       | i |

**NOTE:** If = 30, Vr = -35, Recover to 50 k $\Omega$ .

### **MECHANICAL**



T-01-07

## GOLD BONDED GERMANIUM DIODE



#### **FEATURES**

Low forward voltage drop—low power consumption
Thirty years of proven reliability—one million hours mean time between failures (MTBF)
Very low noise level
Metallurgically bonded

#### ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

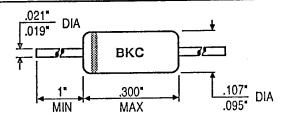
Peak Inverse Voltage
Peak Forward Current
Operating Temperature Range
Average Power Dissipation

75 Volts 500 mA - 65 °C to 85 °C 80 mW

### **ELECTRICAL CHARACTERISTICS**

|                      | Symbol | Conditions | IVIII | IVIAX | Offic | ' 0   |  |
|----------------------|--------|------------|-------|-------|-------|-------|--|
| Peak Inverse Voltage | PIV    | 1 mA       | 75    |       | V     | 25 °C |  |
| Reverse Current      | lr     | 10 V       |       | 50    | μΑ    | 25 °C |  |
| Reverse Current      | lr     | 50 V       |       | 800   | μΑ    | °C    |  |
| Forward Voltage      | Vf     | 5 mA       |       | 1     | V     | 25 °C |  |
|                      |        |            |       |       |       |       |  |
|                      |        |            |       |       |       |       |  |

### **MECHANICAL**



## Type No. **1N126A**

T-01-07

### GOLD BONDED GERMANIUM DIODF



#### **FEATURES**

Low forward voltage drop—low power consumption Thirty years of proven reliability—one million hours mean time between failures (MTBF) Very low noise level Metallurgically bonded

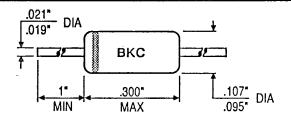
### ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage Peak Forward Current **Operating Temperature Range** Average Power Dissipation

### **ELECTRICAL CHARACTERISTICS**

|                      | Symbol | Conditions | Min | Max | Unit | T°C   |  |
|----------------------|--------|------------|-----|-----|------|-------|--|
| Peak Inverse Voltage | PIV    | 1 mA       | 75  |     | V    | 25 °C |  |
| Reverse Current      | lr     | 10 V       |     | 50  | μΑ   | 25 °C |  |
| Reverse Current      | lr     | 50 V       |     | 850 | μΑ   | °C    |  |
| Forward Voltage      | Vf     | 25 mA      |     | 1   | V    | 25 °C |  |
|                      |        |            |     |     |      |       |  |
|                      |        |            |     |     |      |       |  |

#### MECHANICAL



Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

75 Volts

500 mA

80 mW

- 65 °C to 85 °C

T-01-07

### GOLD BONDED GERMANIUM DIODE



#### **FEATURES**

Low forward voltage drop—low power consumption
Thirty years of proven reliability—one million hours mean time between failures (MTBF)
Very low noise level
Metallurgically bonded

#### ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage
Peak Forward Current
Operating Temperature Range
Average Power Dissipation

125 Volts 500 mA

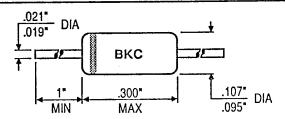
- 65 °C to 85 °C

80 mW

### **ELECTRICAL CHARACTERISTICS**

| ·                    | Symbol | Conditions | Min | Max | Unit | 1 0   |  |
|----------------------|--------|------------|-----|-----|------|-------|--|
| Peak Inverse Voltage | PIV    | 1 mA       | 125 |     | V    | 25 °C |  |
| Reverse Current      | lr     | 10 V       |     | 25  | μΑ   | 25 °C |  |
| Reverse Current      | lr     | 50 V       |     | 300 | μΑ   | °C    |  |
| Forward Voltage      | Vf     | 3 mA       |     | 1   | V    | 25 °C |  |
|                      |        |            | ,   |     |      |       |  |
|                      |        |            |     |     |      |       |  |

### **MECHANICAL**



## Type No. 1N127A

T-01-07

## **GOLD BONDED GERMANIUM DIODE**



#### **FEATURES**

Low forward voltage drop—low power consumption Thirty years of proven reliability—one million hours mean time between failures (MTBF) Very low noise level Metallurgically bonded

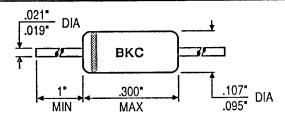
### ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage Peak Forward Current - 65 °C to 85 °C **Operating Temperature Range** Average Power Dissipation

#### **ELECTRICAL CHARACTERISTICS**

|                      | Symbol | Conditions | Min | Max | Unit | T°C   |  |
|----------------------|--------|------------|-----|-----|------|-------|--|
| Peak Inverse Voltage | PIV    | 1 mA       | 125 |     | V    | 25 °C |  |
| Reverse Current      | lr .   | 10 V       |     | 25  | μА   | 25 °C |  |
| Reverse Current      | lr     | 50 V       |     | 300 | μΑ   | °C    |  |
| Forward Voltage      | Vf     | 25 mA      |     | 1   | V    | 25 °C |  |
|                      |        |            |     |     |      |       |  |
|                      |        |            |     |     |      |       |  |

#### **MECHANICAL**



Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

125 Volts

80 mW

500 mA

T-01-07

### GOLD BONDED GERMANIUM DIODE



#### **FEATURES**

Low forward voltage drop—low power consumption
Thirty years of proven reliability—one million hours mean time between failures (MTBF)
Very low noise level
Metallurgically bonded

### ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage
Peak Forward Current
Operating Temperature Range
Average Power Dissipation

50 Volts

500 mA

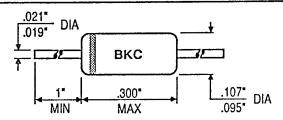
- 65 °C to 85 °C

80 mW

### **ELECTRICAL CHARACTERISTICS**

|                      | Symbol | Conditions | Min | Max | Unit | 1 °C  | ĺ |
|----------------------|--------|------------|-----|-----|------|-------|---|
| Peak Inverse Voltage | PIV    | 1 mA       | 50  |     | V    | 25 °C |   |
| Reverse Current      | lr     | 10 V       |     | 10  | μΑ   | 25 °C |   |
| Forward Voltage      | Vf     | 3 mA       |     | 1   | V    | 25 °C |   |
|                      |        |            |     |     |      |       |   |
| •                    |        |            |     |     |      |       |   |
|                      |        |            |     |     |      | ·     |   |

#### **MECHANICAL**



## Type No.1N128A

T-01-07

### **GOLD BONDED GERMANIUM DIODE**



#### **FEATURES**

Low forward voltage drop—low power consumption Thirty years of proven reliability—one million hours mean time between failures (MTBF) Very low noise level Metallurgically bonded

#### ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage Peak Forward Current Operating Temperature Range Average Power Dissipation

50 Volts

500 mA

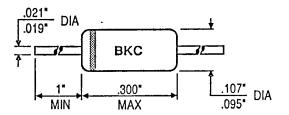
- 65 °C to 85 °C

80 mW

### **ELECTRICAL CHARACTERISTICS**

|                      | Symbol | Conditions | Min | Max | Unit | T°C   |  |
|----------------------|--------|------------|-----|-----|------|-------|--|
| Peak Inverse Voltage | PIV    | 1 mA       | 50  |     | V    | 25 °C |  |
| Reverse Current      | lr .   | 10 V       | ,   | 10  | μΑ   | 25 °C |  |
| Forward Voltage      | Vf     | 3 mA       |     | 1   | V    | 25 °C |  |
|                      |        |            |     |     |      |       |  |
|                      |        |            |     |     |      |       |  |
| •                    |        |            |     |     |      |       |  |

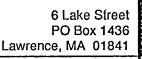
#### MECHANICAL



### T-01-07

## **Type No. 1N133**

### **GOLD BONDED GERMANIUM DIODE**



Telephone (617) 681-0392 TeleFax (617) 681-9135 Telex 928377



#### **FEATURES**

Low forward voltage drop—low power consumption
Thirty years of proven reliability—one million hours mean time between failures (MTBF)
Very low noise level
Metallurgically bonded

#### ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage

Peak Forward Current

Operating Temperature Range

Average Power Dissipation

5 Volts

500 mA

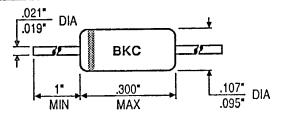
- 65 °C to 85 °C

80 mW

### **ELECTRICAL CHARACTERISTICS**

|                      | Symbol | Conditions | MIN | мах | Unit | 1.0   |  |
|----------------------|--------|------------|-----|-----|------|-------|--|
| Peak Inverse Voltage | PIV    | 1 mA       | 5   |     | ٧    | 25 °C |  |
| Reverse Current      | lr .   | .6 V       |     | 300 | μΑ   | 25 °C |  |
| Forward Voltage      | Vf     | 3 mA       |     | .5  | V    | 25 °C |  |
|                      |        |            |     |     |      |       |  |
|                      |        |            |     |     |      |       |  |
| •                    |        |            |     |     | İ    |       |  |

#### **MECHANICAL**



T-01-07

### **GOLD BONDED GERMANIUM DIODE**



#### **FEATURES**

Low forward voltage drop—low power consumption
Thirty years of proven reliability—one million hours mean time between failures (MTBF)
Very low noise level
Metallurgically bonded

### ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage

50 Volts

**Peak Forward Current** 

500 mA

Operating Temperature Range

- 65 °C to 85 °C

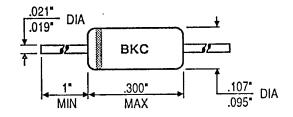
Average Power Dissipation

80 mW

#### **ELECTRICAL CHARACTERISTICS**

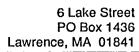
|                      | Symbol | Conditions | Min | Max  | Unit | T°C   |  |
|----------------------|--------|------------|-----|------|------|-------|--|
| Peak Inverse Voltage | PIV    | 1 mA       | 50  |      | V    | 25 °C |  |
| Reverse Current      | lr     | 50 V       |     | 1500 | μΑ   | 25 °C |  |
| Forward Voltage      | Vf     | 20 mA      |     | 1    | V    | 25 °C |  |
| ,                    |        |            |     |      |      |       |  |
|                      |        |            |     |      |      |       |  |
|                      |        |            |     | 1    |      |       |  |

#### **MECHANICAL**



T-01-07

### **GOLD BONDED GERMANIUM DIODE**



Telephone (617) 681-0392 TeleFax (617) 681-9135 Telex 928377





#### **FEATURES**

Low forward voltage drop—low power consumption
Thirty years of proven reliability—one million hours mean time between failures (MTBF)
Very low noise level
Metallurgically bonded

### ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage
Peak Forward Current
Operating Temperature Range
Average Power Dissipation

85 Volts

500 mA

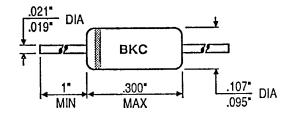
- 65 °C to 85 °C

80 mW

### **ELECTRICAL CHARACTERISTICS**

|                      | Symbol | Conditions | Min | max | Unit | 1.0   |  |
|----------------------|--------|------------|-----|-----|------|-------|--|
| Peak Inverse Voltage | PIV    | 1 mA       | 85  |     | V    | 25 °C |  |
| Reverse Current      | lr     | 50 V       |     | 300 | μΑ   | 25 °C |  |
| Forward Voltage      | Vf     | 40 mA      |     | 1   | · V  | 25 °C |  |
|                      |        |            |     |     |      |       |  |
|                      |        |            |     |     |      |       |  |
|                      |        |            |     |     |      |       |  |

### **MECHANICAL**



T-01-07

### **GOLD BONDED GERMANIUM DIODE**



#### **FEATURES**

Low forward voltage drop—low power consumption Thirty years of proven reliability—one million hours mean time between failures (MTBF) Very low noise level Metallurgically bonded

#### ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage Peak Forward Current **Operating Temperature Range** Average Power Dissipation

85 Volts

· 500 mA

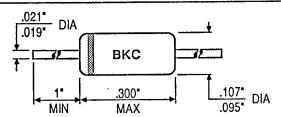
- 65 °C to 85 °C

80 mW

#### **ELECTRICAL CHARACTERISTICS**

|   | Symbol    | Conditions   | Min | Max | Unit    | T°C            |  |
|---|-----------|--------------|-----|-----|---------|----------------|--|
| Peak Inverse Voltage<br>Reverse Current | PIV<br>Ir | 1 mA<br>50 V | 85  | 50  | V<br>μΑ | 25 °C<br>25 °C |  |
| Forward Voltage                         | Vf        | 20 mA        |     | 1   | V       | 25 °C          |  |

#### **MECHANICAL**



T-01-07

### GOLD BONDED GERMANIUM DIODE



#### **FEATURES**

Low forward voltage drop—low power consumption
Thirty years of proven reliability—one million hours mean time between failures (MTBF)
Very low noise level
Metallurgically bonded

#### ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage
Peak Forward Current
Operating Temperature Range
Average Power Dissipation

125 Volts

500 mA

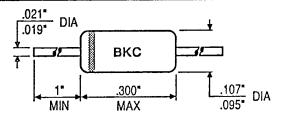
- 65 °C to 85 °C

80 mW

### **ELECTRICAL CHARACTERISTICS**

|                      | Symbol | Conditions | Min | Max | Unit | T°C   |  |
|----------------------|--------|------------|-----|-----|------|-------|--|
| Peak Inverse Voltage | PIV    | 1 mA       | 125 |     | ٧    | 25 °C |  |
| Reverse Current      | lr .   | 100 V      |     | 100 | μΑ   | 25 °C |  |
| Forward Voltage      | Vf     | 5 mA       |     | 1   | V    | 25 °C |  |
|                      |        |            | }   |     |      |       |  |
|                      |        |            |     |     |      |       |  |
|                      |        |            |     |     |      |       |  |

#### **MECHANICAL**



T-01-07

### **GOLD BONDED GERMANIUM DIODE**



#### **FEATURES**

Low forward voltage drop—low power consumption
Thirty years of proven reliability—one million hours mean time between failures (MTBF)
Very low noise level
Metallurgically bonded

### ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage
Peak Forward Current
Operating Temperature Range
Average Power Dissipation

125 Volts

500 mA

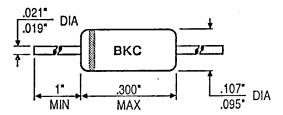
- 65 °C to 85 °C

80 mW

### **ELECTRICAL CHARACTERISTICS**

| -                    | Symbol | Conditions | Min | Max | Unit | T°C   |  |
|----------------------|--------|------------|-----|-----|------|-------|--|
| Peak Inverse Voltage | PIV    | 1 mA       | 125 |     | V    | 25 °C |  |
| Reverse Current      | lr     | 100 V      |     | 100 | μΑ   | 25 °C |  |
| Forward Voltage      | Vf     | 40 mA      |     | 1   | V    | 25 °C |  |
|                      |        |            |     |     |      |       |  |
|                      |        |            |     |     |      |       |  |
|                      |        |            |     |     |      |       |  |

#### **MECHANICAL**



T-01-07

### **GOLD BONDED GERMANIUM DIODE**



#### **FEATURES**

Low forward voltage drop—low power consumption
Thirty years of proven reliability—one million hours mean time between failures (MTBF)
Very low noise level
Metallurgically bonded

#### ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage
Peak Forward Current
Operating Temperature Range
Average Power Dissipation

30 Volts

500 mA

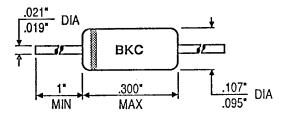
- 65 °C to 85 °C

80 mW

### **ELECTRICAL CHARACTERISTICS**

|                      | Symbol | Conditions | Min | Max | Unit | T °C  |   |
|----------------------|--------|------------|-----|-----|------|-------|---|
| Peak Inverse Voltage | PIV    | 1 mA       | 30  |     | ٧    | 25 °C |   |
| Reverse Current      | lr     | 100 V      |     | 200 | μΑ   | 25 °C |   |
| Forward Voltage      | Vf     | 100 mA     |     | 1   | V    | 25 °C |   |
|                      |        |            |     |     |      |       |   |
|                      |        |            |     |     |      |       |   |
|                      |        |            |     |     |      |       | ļ |

#### **MECHANICAL**



T-01-07

### GOLD BONDED GERMANIUM DIODE



#### **FEATURES**

Low forward voltage drop—low power consumption
Thirty years of proven reliability—one million hours mean time between failures (MTBF)
Very low noise level
Metallurgically bonded

#### ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage

30 Volts

Peak Forward Current

500 mA

Operating Temperature Range

- 65 °C to 85 °C

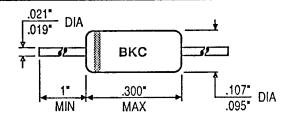
Average Power Dissipation

80 mW

#### **ELECTRICAL CHARACTERISTICS**

|                                      | Symbol          | Conditions             | Min | Max | Unit    | T °C                    |  |
|--------------------------------------|-----------------|------------------------|-----|-----|---------|-------------------------|--|
| Peak Inverse Voltage Reverse Current | PIV<br>Ir<br>Vf | '1 mA<br>10 V<br>40 mA | 30  | 100 | V<br>μΑ | 25 °C<br>25 °C<br>25 °C |  |
| Forward Voltage                      | VI              | 40 mA                  |     |     | V       | 25 0                    |  |

#### **MECHANICAL**



T-03-07

### **GOLD BONDED GERMANIUM DIODE**



#### **FEATURES**

Low forward voltage drop—low power consumption
Thirty years of proven reliability—one million hours mean time between failures (MTBF)
Very low noise level
Metallurgically bonded

### ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage
Peak Forward Current
Operating Temperature Range
Average Power Dissipation

90 Volts

500 mA

- 65 °C to 85 °C

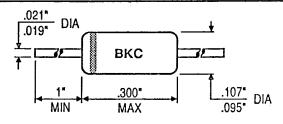
80 mW

### **ELECTRICAL CHARACTERISTICS**

|                      | Symbol | Conditions | Min | Max | Unit  | T °C  | í |
|----------------------|--------|------------|-----|-----|-------|-------|---|
| Peak Inverse Voltage | PIV    | 1 mA       | 90  |     | V     | 25 °C | İ |
| Reverse Current      | lr     | 10 V       |     | 25  | μΑ    | 25 °C |   |
| Reverse Current      | lr     | 50 V       |     | 125 | μΑ    | 55 °C |   |
| Forward Voltage      | Vf     | 5 mA       |     | 1   | V     | 25 °C |   |
| Reverse Recovery     | Trr    | See Note   |     | 500 | n Sec |       | l |
|                      |        |            |     |     |       |       |   |

Note: If = 30, Vr = -35, Recover to 50  $k\Omega$ .

### **MECHANICAL**



# GOLD BONDED GERMANIUM DIODE

6 Lake Street PO Box 1436 Lawrence, MA 01841

Telephone (617) 681-0392 TeleFax (617) 681-9135 Telex 928377



#### **FEATURES**

Low forward voltage drop—low power consumption
Thirty years of proven reliability—one million hours mean time between failures (MTBF)
Very low noise level
Metallurgically bonded

## ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage
Peak Forward Current
Operating Temperature Range
Average Power Dissipation

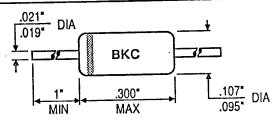
70 Volts 500 mA - 65 °C to 85 °C 80 mW

## **ELECTRICAL CHARACTERISTICS**

|   | Symbol                       | Conditions                                | Min | Max                  | Unit                        | 1 0                              |   |
|---|------------------------------|---|-----|----------------------|-----------------------------|----------------------------------|---|
| Peak Inverse Voltage Reverse Current Reverse Current Forward Voltage Reverse Recovery | PIV<br>Ir<br>Ir<br>Vf<br>Trr | 1 mA<br>10 V<br>70 V<br>5 mA'<br>See Note | 70  | 20<br>50<br>1<br>500 | V<br>μA<br>μA<br>V<br>n Sec | 25 °C<br>25 °C<br>50 °C<br>25 °C |   |
| •   |                              |   |     | Ì                    |                             |                                  | 1 |

Note: If = 30, Vr = -35, Recover to 50  $k\Omega$ .

### **MECHANICAL**



T-01-07

### GOLD BONDED GERMANIUM DIODE



#### **FEATURES**

Low forward voltage drop—low power consumption
Thirty years of proven reliability—one million hours mean time between failures (MTBF)
Very low noise level
Metallurgically bonded

#### ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage
Peak Forward Current
Operating Temperature Range
Average Power Dissipation

40 Volts

500 mA

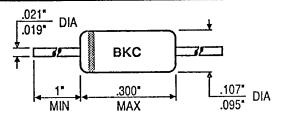
- 65 °C to 85 °C

80 mW

### **ELECTRICAL CHARACTERISTICS**

|                      | Symbol | Conditions | Min | мах | Unit | 1 0   | l |
|----------------------|--------|------------|-----|-----|------|-------|---|
| Peak Inverse Voltage | PIV    | 1 mA       | 40  |     | ٧    | 25 °C |   |
| Reverse Current      | lr ir  | 40 V       |     | 10  | μΑ   | 25 °C |   |
| Forward Voltage      | Vf     | 2 mA       |     | 2   | V    | 25 °C |   |
|                      |        |            |     |     |      |       |   |
| ·                    |        |            |     |     |      |       | ĺ |
|                      |        |            |     |     |      |       |   |

### **MECHANICAL**



T-01-07

### **GOLD BONDED GERMANIUM DIODE**



#### **FEATURES**

Low forward voltage drop—low power consumption
Thirty years of proven reliability—one million hours mean time between failures (MTBF)
Very low noise level
Metallurgically bonded

### ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage
Peak Forward Current
Operating Temperature Range
Average Power Dissipation

80 Volts

500 mA

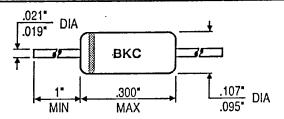
- 65 °C to 85 °C

80 mW

### **ELECTRICAL CHARACTERISTICS**

|                      | Symbol | Conditions | Min | Max | Unit | 1 0   |  |
|----------------------|--------|------------|-----|-----|------|-------|--|
| Peak Inverse Voltage | PIV    | 1 mA       | 80  |     | V    | 25 °C |  |
| Reverse Current      | lr     | 10 V       |     | 10  | μΑ   | 25 °C |  |
| Reverse Current      | lr     | 50 V       |     | 250 | μΑ   | 75 °C |  |
| Forward Voltage      | Vf     | 4 mA       |     | 1   | V    | 25 °C |  |
|                      |        |            |     |     |      |       |  |
|                      |        |            |     |     |      |       |  |

#### **MECHANICAL**



## Type No. 1N198A

T-01-07

### **GOLD BONDED GERMANIUM DIODE**



#### **FEATURES**

Low forward voltage drop—low power consumption
Thirty years of proven reliability—one million hours mean time between failures (MTBF)
Very low noise level
Metallurgically bonded

### ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage
Peak Forward Current
Operating Temperature Range
Average Power Dissipation

100 Volts

500 mA

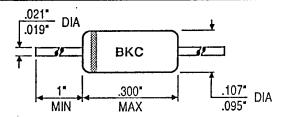
- 65 °C to 85 °C

80 mW

### **ELECTRICAL CHARACTERISTICS**

|                      | Symbol | Conditions | Min | Max | Unit | T°C   |  |
|----------------------|--------|------------|-----|-----|------|-------|--|
| Peak Inverse Voltage | PIV    | 1 mA       | 100 |     | ٧    | 25 °C |  |
| Reverse Current      | ir     | 10 V       |     | 10  | μΑ   | 25 °C |  |
| Reverse Current      | lr .   | 10 V       |     | 75  | μΑ   | 75 °C |  |
| Forward Voltage      | Vf     | 4 mA       |     | 1   | V    | 25 °C |  |
|                      |        |            |     |     |      |       |  |
| <i>:</i>             |        |            |     |     |      |       |  |

#### **MECHANICAL**



## Type No. **1N198B**

T-03-07

## GOLD BONDED GERMANIUM DIODE



#### **FEATURES**

Low forward voltage drop—low power consumption
Thirty years of proven reliability—one million hours mean time between failures (MTBF)
Very low noise level
Metallurgically bonded

### ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

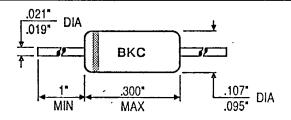
Peak Inverse Voltage100 VoltsPeak Forward Current500 mAOperating Temperature Range-65 °C to 85 °CAverage Power Dissipation80 mW

### **ELECTRICAL CHARACTERISTICS**

| •                    | Symbol | Conditions | Min | Max | Unit  | T °C  | l |
|----------------------|--------|------------|-----|-----|-------|-------|---|
| Peak Inverse Voltage | PIV    | 1 mA       | 100 |     | V     | 25 °C |   |
| Reverse Current      | İr     | 50 V       |     | 50  | μΑ    | 25 °C |   |
| Reverse Current      | lr     | 50 V       |     | 250 | μΑ    | 75 °C |   |
| Forward Voltage      | Vf     | 4 mA       |     | 1   | V     | 25 °C | į |
| Reverse Recovery     | Trr    | See Note   |     | 300 | n Sed |       |   |
|                      |        |            |     |     |       |       |   |

Note: If = 2, Vr = -6, Recover to 50 k.

### **MECHANICAL**



T-01-07

### **GOLD BONDED GERMANIUM DIODE**



#### **FEATURES**

Low forward voltage drop—low power consumption
Thirty years of proven reliability—one million hours mean time between failures (MTBF)
Very low noise level
Metallurgically bonded

### ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage

90 Volts 500 mA

Peak Forward Current

300 IIIA

Operating Temperature Range

- 65 °C to 85 °C

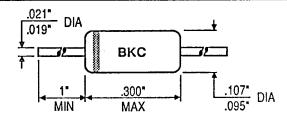
Average Power Dissipation

80 mW

### **ELECTRICAL CHARACTERISTICS**

|                      | Symbol | Conditions | Min | Max | Unit | 1 °C  |  |
|----------------------|--------|------------|-----|-----|------|-------|--|
| Peak Inverse Voltage | PIV    | 1 mA       | 90  |     | V    | 25 °C |  |
| Reverse Current      | lr     | 60 V       |     | 100 | μΑ   | 25 °C |  |
| Forward Voltage      | Vf     | 3.2 mA     |     | 1   | ٧    | 25 °C |  |
|                      |        |            |     |     |      |       |  |
| •                    |        |            |     |     |      |       |  |
|                      |        |            |     |     |      |       |  |

#### **MECHANICAL**



T-01-07

### GOLD BONDED GERMANIUM DIODE



#### **FEATURES**

Low forward voltage drop—low power consumption Thirty years of proven reliability—one million hours mean time between failures (MTBF) Very low noise level Metallurgically bonded

#### ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage

60 Volts

Peak Forward Current

500 mA

**Operating Temperature Range** 

- 65 °C to 85 °C

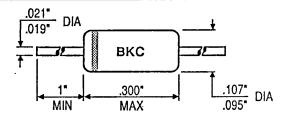
Average Power Dissipation

80 mW

#### **ELECTRICAL CHARACTERISTICS**

|                      | Symbol     | Conditions | Min | Max | Unit | T°C   |   |
|----------------------|------------|------------|-----|-----|------|-------|---|
| Peak Inverse Voltage | PIV        | 1 mA       | 60  |     | V    | 25 °C |   |
| Reverse Current      | <b>I</b> r | 30 V       |     | 75  | μΑ   | 25 °C |   |
| Forward Voltage      | Vf         | 4 mA       |     | 1   | ٧    | 25 °C |   |
|                      |            |            |     |     |      |       |   |
|                      |            |            |     |     |      |       |   |
|                      |            |            |     |     |      |       | i |

#### MECHANICAL



T-01-07

## **GOLD BONDED GERMANIUM DIODE**



#### **FEATURES**

Low forward voltage drop—low power consumption
Thirty years of proven reliability—one million hours mean time between failures (MTBF)
Very low noise level
Metallurgically bonded

#### ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage
Peak Forward Current
Operating Temperature Range
Average Power Dissipation

25 Volts

500 mA

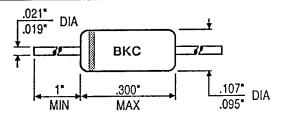
- 65 °C to 85 °C

80 mW

### **ELECTRICAL CHARACTERISTICS**

|                      | Symbol | Conditions | Min | Max | Unit | T°C   |  |
|----------------------|--------|------------|-----|-----|------|-------|--|
| Peak Inverse Voltage | PIV    | 1 mA       | 25  |     | V    | 25 °C |  |
| Reverse Current      | lr .   | 10 V       | ł   | 12  | μΑ   | 25 °C |  |
| Forward Voltage      | Vf     | 3.5 mA     |     | 1   | V    | 25 °C |  |
|                      | :      |            |     |     |      |       |  |
|                      |        |            |     |     |      |       |  |
|                      |        |            |     |     |      |       |  |

#### MÉCHANICAL



## **Type No. 1 N 2 6 8**

T-01-07

### **GOLD BONDED GERMANIUM DIODE**



#### **FEATURES**

Low forward voltage drop—low power consumption
Thirty years of proven reliability—one million hours mean time between failures (MTBF)
Very low noise level
Metallurgically bonded

### ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage
Peak Forward Current
Operating Temperature Range
Average Power Dissipation

30 Volts

500 mA

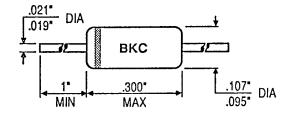
- 65 °C to 85 °C

80 mW

### **ELECTRICAL CHARACTERISTICS**

|                      | Symbol | Conditions | Min | Max | Unit | T°C   |  |
|----------------------|--------|------------|-----|-----|------|-------|--|
| Peak Inverse Voltage | PIV    | 1 mA       | 30  |     | V    | 25 °C |  |
| Reverse Current      | lr     | 10 ·V      |     | 20  | μΑ   | 25 °C |  |
| Forward Voltage      | Vf     | 2.5 mA     |     | 1   | V    | 25 °C |  |
|                      |        |            |     |     |      |       |  |
|                      |        |            |     |     |      |       |  |
|                      |        |            | ļ   |     |      |       |  |

#### **MECHANICAL**



BKC INTERNATIONAL ELECTRONICS, INC. 6 LAKE STREET, LAWRENCE, MA 01841 TEL NO. (508) 681-0392

## ENGINEERING DATA SHEET

#### 1N270JTXV

GOLD BONDED, GERMANIUM, DIODE

|   |   |                   |                            |                  |                  |                          | •                        |  |  |  |  |
|---|---|-------------------|----------------------------|------------------|------------------|--------------------------|--------------------------|--|--|--|--|
|   |   | ,                 | ABSOLUTE MA                | XIMUM RA         |                  |                          |                          |  |  |  |  |
| PEAK REVERSE VOLTAGE (Vr)   |   |                   |                            | 100V(F           | 100V(PK)         |                          |                          |  |  |  |  |
| WORKING   | INVERSE V   | OLTAGE (          | VRM)                       | 80V(PK           | <b>()</b>        |                          |                          |  |  |  |  |
| DECHIDDENE DESK MARKET  |   |                   |                            | 60mA             | 60mA             |                          |                          |  |  |  |  |
| FORWARD CURRENT   |   |                   |                            | 325mA            |                  |                          |                          |  |  |  |  |
| SURGE CURRENT (1/120 SECOND)  |   |                   |                            | 1 A              |                  |                          |                          |  |  |  |  |
| DERATE A  | BOVE + 25   | DEGREES           | CELSIUS                    | 0.923m           | A/DEGREE         | S CELSIUS                |                          |  |  |  |  |
|   | OPERATING & STORAGE TEMPERATURE -65 TO +100 DEGREES CELSIUS |                   |                            |                  |                  |                          |                          |  |  |  |  |
|   |   |                   | CHARAC                     |                  |                  |                          |                          |  |  |  |  |
|   | PARA<br>COND<br>TA<br>LIMITS<br>MAX.                        | VF<br>10mA<br>25C | VF<br>200mA<br>25C<br>1.0V | IR<br>20V<br>25C | IR<br>80V<br>25C | IR<br>100V<br>25C<br>1mA | IR<br>10V<br>75C<br>75uA |  |  |  |  |
| · ·   |   |                   | PACKAGE CO                 |                  |                  |                          |                          |  |  |  |  |
|   |   |                   | GLASS CASI                 | E JEDEC I        | 00-7             |                          |                          |  |  |  |  |
|   |   |                   | (INC                       | CHES)            |                  |                          |                          |  |  |  |  |
| LEAD DIAMETER 018 TO 022  |   |                   |                            |                  |                  |                          |                          |  |  |  |  |
| LEAD DIAMETER .018 TO .022 BODY LENGTH .230 TO .300   |   |                   |                            |                  |                  |                          |                          |  |  |  |  |
| BODY DIAMETER .085 TO .130  |   |                   |                            |                  |                  |                          |                          |  |  |  |  |
| MARKING   |   |                   |                            |                  |                  |                          |                          |  |  |  |  |
| BLACK CATHODE BAND & BLACK DIGITAL PRINT  |   |                   |                            |                  |                  |                          |                          |  |  |  |  |
| SPECIAL FEATURES: ALL DEVICES HAVE BEEN SUBJECTED TO & PASSED, AS APPLICABLE, ALL THE SCREENING TESTS AS SPECIFIED IN MIL-S-19500/200B & TABLE 11 OF MIL-S-19500. |   |                   |                            |                  |                  |                          |                          |  |  |  |  |
|   |   |                   |                            |                  |                  |                          | ~                        |  |  |  |  |

T-01-07

### **GOLD BONDED GERMANIUM DIODE**



#### **FEATURES**

Low forward voltage drop—low power consumption
Thirty years of proven reliability—one million hours mean time between failures (MTBF)
Very low noise level
Metallurgically bonded

#### ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage
Peak Forward Current
Operating Temperature Range
Average Power Dissipation

30 Volts 500 mA

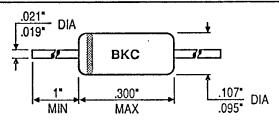
- 65 °C to 85 °C

80 mW

### **ELECTRICAL CHARACTERISTICS**

| •                    | Symbol | Conditions | Min | Max | Unit | 1°C   |  |
|----------------------|--------|------------|-----|-----|------|-------|--|
| Peak Inverse Voltage | PIV    | 1 mA       | 30  |     | V    | 25 °C |  |
| Reverse Current      | lr     | 20 V       |     | 20  | μΑ   | 25 °C |  |
| Forward Voltage      | Vf     | 100 mA     |     | 1   | V    | 25 °C |  |
|                      |        |            |     |     |      |       |  |
|                      |        |            |     |     |      |       |  |
| ·                    |        |            |     |     |      |       |  |

#### **MECHANICAL**



#### **FEATURES**

- Solder plate
- DO-7 package
- Very low noise level
- Non-ESD sensitive (>15 KV)

### Gold Bonded Germanium Diode

## 1N276



#### SPECIAL FEATURES

- · Thirty years of proven reliability
- · Ideally suited for schottky diode replacement
- Low forward voltage drop low power consumption

#### RELIABILITY DATA

- One million hours mean time between failures (MTBF)
- Passes all mechanical and environmental requirements of MIL-S-19500
- Solder plate surpasses requirements of MIL-STD 202, Method 208, 8 hour Steam Age Test

#### **MAXIMUM RATINGS**<sup>1</sup>

Peak Inverse Voltage (min)

60 V

Peak Forward Current Operating Temperature 500 mA --65° C to +85° C

Average Power Dissipation

5° C to +85° C 80 mW

Note: 1. Tc @ 25°C, unless otherwise specified

#### **ELECTRICAL CHARACTERISTICS<sup>1</sup>**

Reverse Current [IR@50V]

100 μA (max)

Reverse Current [IR @ 10 V, Tc @ 75°C]

100 µA (max)

Forward Voltage [VF@40 mA]

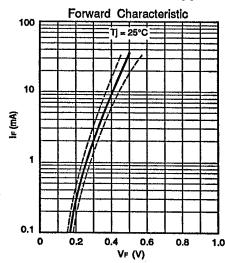
1 V (max)

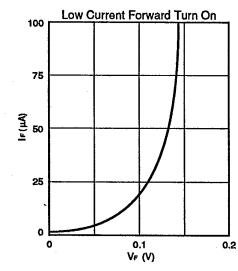
Reverse Recovery<sup>2</sup>

300 nS (max)

Note: 2. If = 5 mA,  $V_R = -40 \text{ V}$ , Recover in <

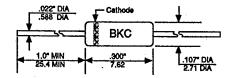
#### **Typical Electrical Performance**





#### **MECHANICAL**

JEDEC DO-7 Package



8004--9055

6 Lake Street Lawrence, MA USA 01841

