



6 Lake Street  
 PO Box 1436  
 Lawrence, MA  
 USA 01841

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

**GOLD BONDED DIODES**

**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

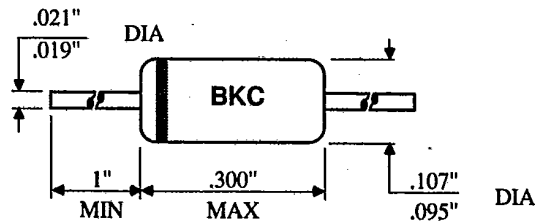
**ABSOLUTE MAXIMUM RATINGS**

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**

	Symbol	Conditions	Min.	Max.	Unit	T °C
Peak Inverse Voltage	PIV	1mA	30		V	25°
Inverse Current	I <sub>r</sub>	10V		65	uA	25°
Forward Voltage	V <sub>f</sub>	5mA		1.0	V	25°

**MECHANICAL**



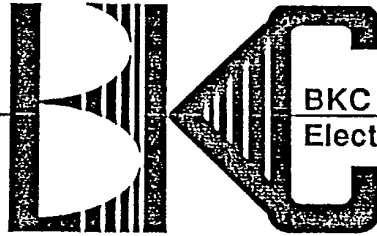
Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

Type No. 1N61

**GOLD BONDED GERMANIUM DIODE**

6 Lake Street  
PO Box 1436  
Lawrence, MA 01841

Telephone (617) 681-0392  
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BKC International  
Electronics Inc.

**FEATURES**

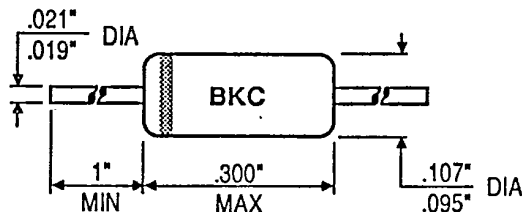
Low forward voltage drop—low power consumption  
Thirty years of proven reliability—one million hours mean time between failures (MTBF)  
Very low noise level  
Metallurgically bonded

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

Peak Inverse Voltage	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	$I_r$	100 V		300	$\mu$ A	25 °C
Reverse Current	$I_r$	125 V		700	$\mu$ A	°C
Forward Voltage	$V_f$	5 mA		1	V	25 °C

**MECHANICAL**

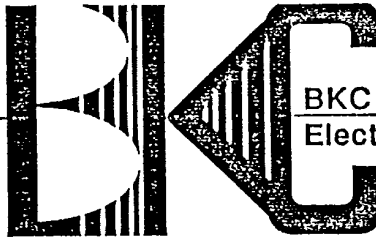
Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

## Type No. 1N62

## 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

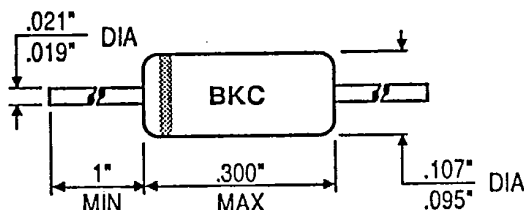
## ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage	110 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	110		V	25 °C
Reverse Current	I <sub>r</sub>	125 V		700	μA	25 °C
Forward Voltage	V <sub>f</sub>	5 mA		1	V	25 °C

## MECHANICAL



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

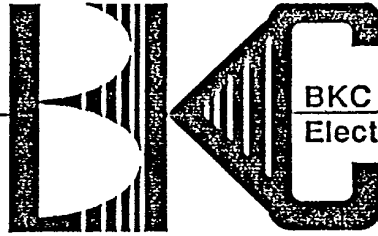
Type No. 1N63

T-01-07

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**FEATURES**

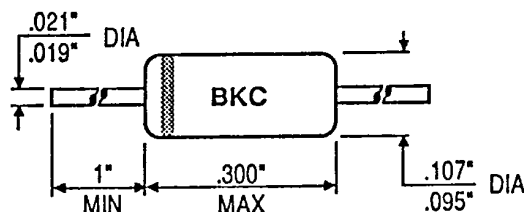
Low forward voltage drop—low power consumption  
Thirty years of proven reliability—one million hours mean time between failures (MTBF)  
Very low noise level  
Metallurgically bonded

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

Peak Inverse Voltage	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	$I_r$	50 V		50	$\mu$ A	25 °C
Forward Voltage	$V_f$	4 mA		1	V	25 °C

**MECHANICAL**

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

Type No. 1N63A

T-01-07

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**FEATURES**

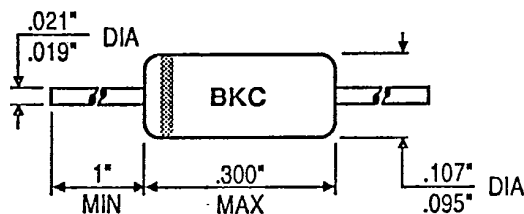
Low forward voltage drop—low power consumption  
Thirty years of proven reliability—one million hours mean time between failures (MTBF)  
Very low noise level  
Metallurgically bonded

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

Peak Inverse Voltage	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	$I_r$	50 V		50	$\mu$ A	25 °C
Forward Voltage	$V_f$	4 mA		1	V	25 °C

**MECHANICAL**

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

Type No. 1N65

T-01-07

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**FEATURES**

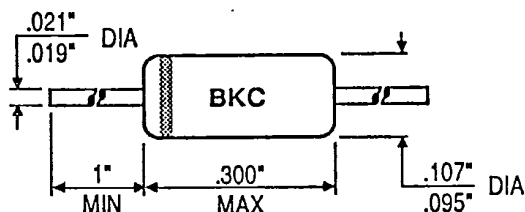
Low forward voltage drop—low power consumption  
Thirty years of proven reliability—one million hours mean time between failures (MTBF)  
Very low noise level  
Metallurgically bonded

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

Peak Inverse Voltage	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	T °C
Peak Inverse Voltage	PIV	1 mA	85		V	25 °C
Reverse Current	$I_r$	50 V		200	$\mu$ A	25 °C
Forward Voltage	$V_f$	2.5 mA		1	V	25 °C

**MECHANICAL**

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

Type No. 1N66

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**FEATURES**

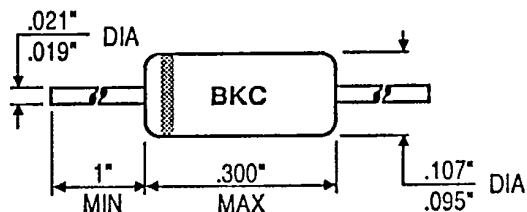
Low forward voltage drop—low power consumption  
Thirty years of proven reliability—one million hours mean time between failures (MTBF)  
Very low noise level  
Metallurgically bonded

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

Peak Inverse Voltage	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	$I_r$	10 V		50	$\mu$ A	25 °C
Reverse Current	$I_r$	50 V		800	$\mu$ A	°C
Forward Voltage	$V_f$	5 mA		1	V	25 °C

**MECHANICAL**

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

Type No. 1N66A

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**FEATURES**

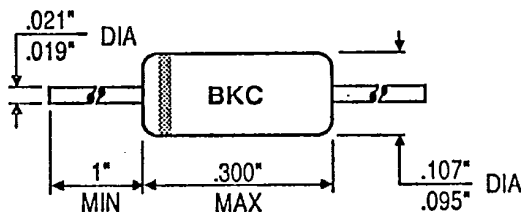
- Low forward voltage drop—low power consumption
- Thirty years of proven reliability—one million hours mean time between failures (MTBF)
- Very low noise level
- Metallurgically bonded

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

Peak Inverse Voltage	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	I <sub>r</sub>	10 V		50	μA	25 °C
Forward Voltage	V <sub>f</sub>	5 mA		1	V	25 °C

**MECHANICAL**

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



Type No. 1N67

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**FEATURES**

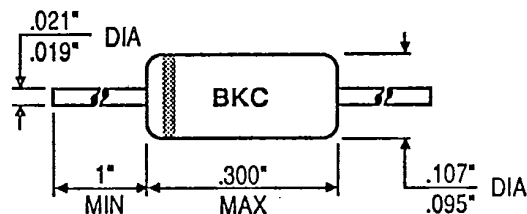
Low forward voltage drop—low power consumption  
Thirty years of proven reliability—one million hours mean time between failures (MTBF)  
Very low noise level  
Metallurgically bonded

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

Peak Inverse Voltage	80 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	80		V	25 °C
Reverse Current	$I_r$	5 V		5	$\mu$ A	25 °C
Forward Voltage	$V_f$	4 mA		1	V	25 °C

**MECHANICAL**

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

Type No. 1N67A

T-01-07

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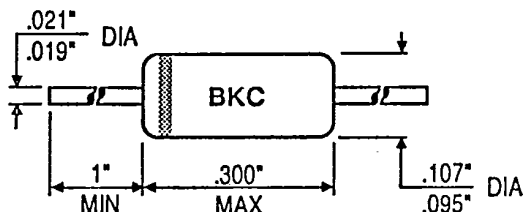
Low forward voltage drop—low power consumption  
Thirty years of proven reliability—one million hours mean time between failures (MTBF)  
Very low noise level  
Metallurgically bonded

**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	I <sub>r</sub>	5 V		5	μA	25 °C
Reverse Current	I <sub>r</sub>	50 V		50	μA	°C
Forward Voltage	V <sub>f</sub>	4 mA		1	V	25 °C

**MECHANICAL**

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

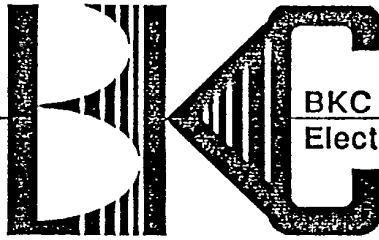
Type No. 1N68

T-01-07

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**FEATURES**

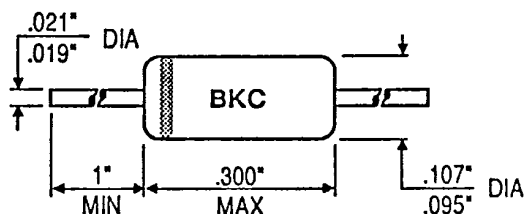
Low forward voltage drop—low power consumption  
Thirty years of proven reliability—one million hours mean time between failures (MTBF)  
Very low noise level  
Metallurgically bonded

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

Peak Inverse Voltage	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	$I_r$	100 V		625	$\mu$ A	25 °C
Forward Voltage	$V_f$	3 mA		1	V	25 °C

**MECHANICAL**

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

Type No. 1N68A

T-01-07

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**FEATURES**

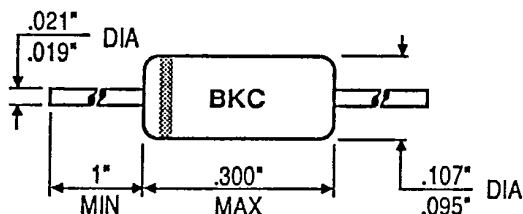
Low forward voltage drop—low power consumption  
Thirty years of proven reliability—one million hours mean time between failures (MTBF)  
Very low noise level  
Metallurgically bonded

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

Peak Inverse Voltage	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	$I_r$	100 V		625	$\mu$ A	25 °C
Forward Voltage	$V_f$	3 mA		1	V	25 °C

**MECHANICAL**

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

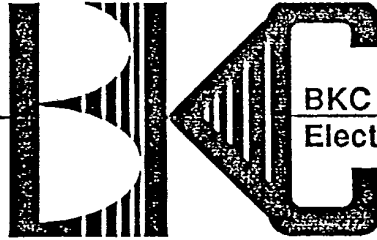
Type No. 1N69

T-01-07

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**FEATURES**

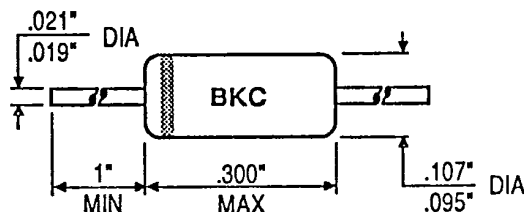
Low forward voltage drop—low power consumption  
Thirty years of proven reliability—one million hours mean time between failures (MTBF)  
Very low noise level  
Metallurgically bonded

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

Peak Inverse Voltage	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	T °C
Peak Inverse Voltage	PIV	1 mA	75		V	25 °C
Reverse Current	I <sub>r</sub>	10 V		50	μA	25 °C
Reverse Current	I <sub>r</sub>	50 V		850	μA	°C
Forward Voltage	V <sub>f</sub>	5 mA		1	V	25 °C

**MECHANICAL**

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

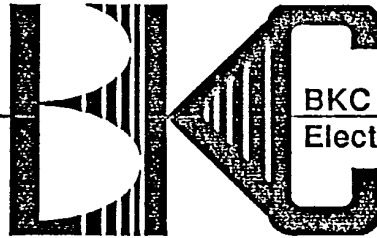
Type No. 1N69A

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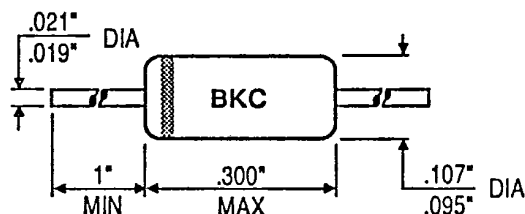
Low forward voltage drop—low power consumption  
Thirty years of proven reliability—one million hours mean time between failures (MTBF)  
Very low noise level  
Metallurgically bonded

**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	T °C
Peak Inverse Voltage	PIV	1 mA	75		V	25 °C
Reverse Current	$I_r$	10 V		30	$\mu$ A	25 °C
Reverse Current	$I_r$	50 V		500	$\mu$ A	°C
Forward Voltage	$V_f$	5 mA		1	V	25 °C

**MECHANICAL**

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

Type No. 1N70

T-01-07

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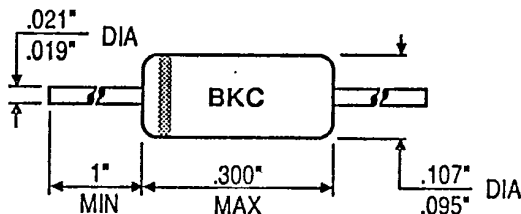
Low forward voltage drop—low power consumption  
Thirty years of proven reliability—one million hours mean time between failures (MTBF)  
Very low noise level  
Metallurgically bonded

**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	I <sub>r</sub>	10 V		25	μA	25 °C
Reverse Current	I <sub>r</sub>	50 V		300	μA	°C
Forward Voltage	V <sub>f</sub>	3 mA		1	V	25 °C

**MECHANICAL**

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

Type No. 1N70A

T-01-07

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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

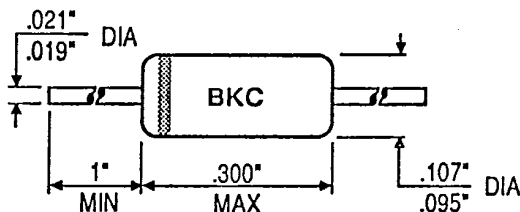
**ABSOLUTE MAXIMUM RATINGS** (at 25 °C, unless otherwise specified)

Peak Inverse Voltage	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	I <sub>r</sub>	10 V		25	μA	25 °C
Reverse Current	I <sub>r</sub>	50 V		300	μA	°C
Forward Voltage	V <sub>f</sub>	3 mA		1	V	25 °C

**MECHANICAL**



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



Type No. 1N71

T-01-07

**GOLD BONDED GERMANIUM DIODE**

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**FEATURES**

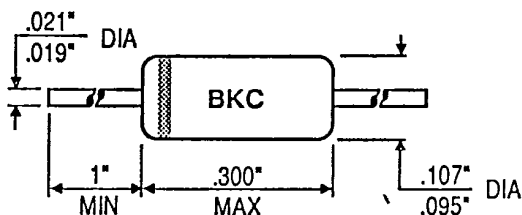
**Low forward voltage drop**—low power consumption  
**Thirty years of proven reliability**—one million hours mean time between failures (MTBF)  
**Very low noise level**  
**Metallurgically bonded**

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

Peak Inverse Voltage	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	T °C
Peak Inverse Voltage	PIV	1 mA	40		V	25 °C
Reverse Current	$I_r$	30 V		300	$\mu$ A	25 °C
Forward Voltage	$V_f$	15 mA		1	V	25 °C

**MECHANICAL**

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

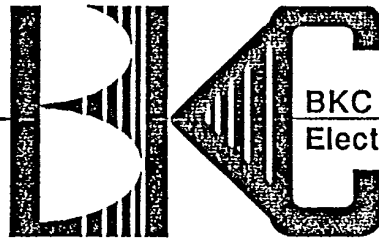
Type No. 1N75

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



BKC International  
Electronics Inc.

**FEATURES**

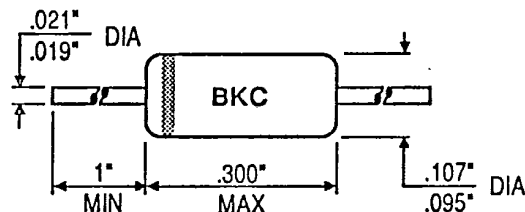
Low forward voltage drop—low power consumption  
Thirty years of proven reliability—one million hours mean time between failures (MTBF)  
Very low noise level  
Metallurgically bonded

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

Peak Inverse Voltage	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	I <sub>r</sub>	50 V		50	μA	25 °C
Forward Voltage	V <sub>f</sub>	2.5 mA		1	V	25 °C

**MECHANICAL**

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

Type No. 1N81

T-01-07

**GOLD BONDED GERMANIUM DIODE**

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**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

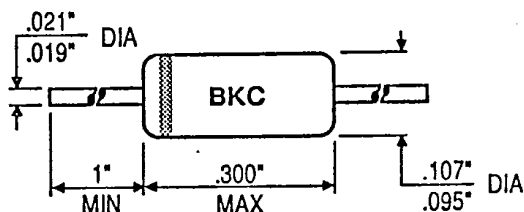
**ABSOLUTE MAXIMUM RATINGS** (at 25 °C, unless otherwise specified)

Peak Inverse Voltage	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	I <sub>r</sub>	10 V		10	μA	25 °C
Forward Voltage	V <sub>f</sub>	3 mA		1	V	25 °C

**MECHANICAL**



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

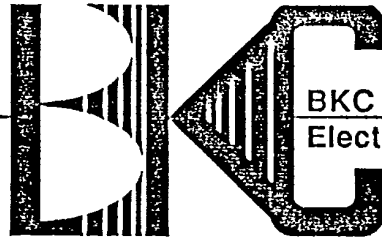
Type No. 1N81A

T-01-07

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Lawrence, MA 01841

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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

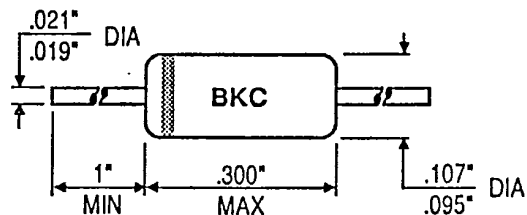
Metallurgically bonded

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

Peak Inverse Voltage	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	$I_r$	10 V		10	$\mu$ A	25 °C
Forward Voltage	$V_f$	3 mA		1	V	25 °C

**MECHANICAL**

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

Type No. 1N84

T-01-07

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**FEATURES**

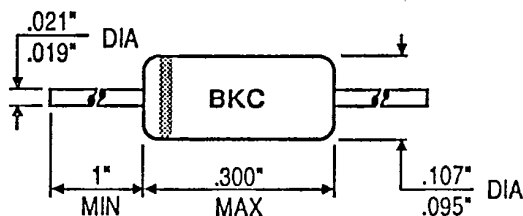
Low forward voltage drop—low power consumption  
Thirty years of proven reliability—one million hours mean time between failures (MTBF)  
Very low noise level  
Metallurgically bonded

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

Peak Inverse Voltage	12 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	12		V	25 °C
Reverse Current	$I_r$	5 V		100	$\mu$ A	25 °C
Forward Voltage	$V_f$	60 mA		1	V	25 °C

**MECHANICAL**

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

Type No. 1N86

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

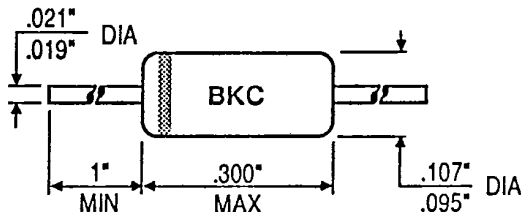
**ABSOLUTE MAXIMUM RATINGS** (at 25 °C, unless otherwise specified)

Peak Inverse Voltage	70 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	70		V	25 °C
Reverse Current	I <sub>r</sub>	10 V		50	µA	25 °C
Reverse Current	I <sub>r</sub>	50 V		833	µA	°C
Forward Voltage	V <sub>f</sub>	4 mA		1	V	25 °C

**MECHANICAL**



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

Type No. 1N87A

T-01-07

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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

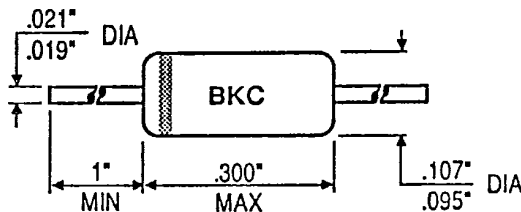
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage	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	T °C
Peak Inverse Voltage	PIV	1 mA	22.5		V	25 °C
Reverse Current	I <sub>r</sub>	V			μA	25 °C
Forward Voltage	V <sub>f</sub>	.1 mA		.25	V	25 °C

MECHANICAL



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

Type No. 1N88

T-01-07

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**FEATURES**

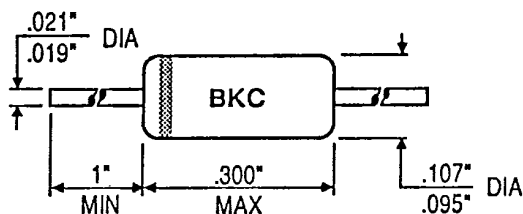
Low forward voltage drop—low power consumption  
Thirty years of proven reliability—one million hours mean time between failures (MTBF)  
Very low noise level  
Metallurgically bonded

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

Peak Inverse Voltage	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	T °C
Peak Inverse Voltage	PIV	1 mA	85		V	25 °C
Reverse Current	I <sub>r</sub>	50 V		100	μA	25 °C
Forward Voltage	V <sub>f</sub>	2.5 mA		1	V	25 °C

**MECHANICAL**

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



Type No. 1N89

T-01-07

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Telex 928377



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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

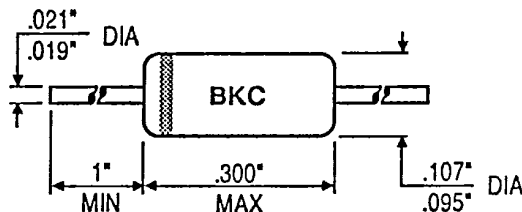
**ABSOLUTE MAXIMUM RATINGS** (at 25 °C, unless otherwise specified)

Peak Inverse Voltage	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	I <sub>r</sub>	5 V		8	μA	25 °C
Forward Voltage	V <sub>f</sub>	3.5 mA		1	V	25 °C

**MECHANICAL**



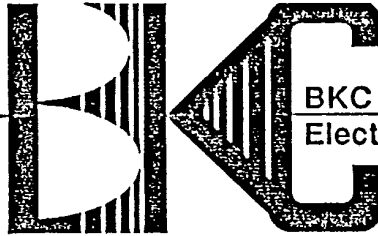
Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

Type No. 1N90

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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

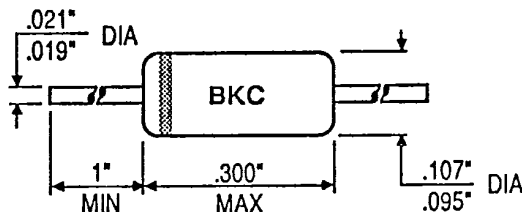
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage	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	T °C
Peak Inverse Voltage	PIV	1 mA	75		V	25 °C
Reverse Current	I <sub>r</sub>	50 V		800	μA	25 °C
Forward Voltage	V <sub>f</sub>	5 mA		1	V	25 °C

MECHANICAL



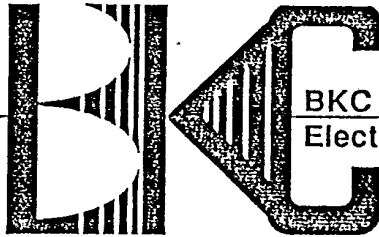
Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

## Type No. 1N95

## GOLD BONDED GERMANIUM DIODE

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PO Box 1436  
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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

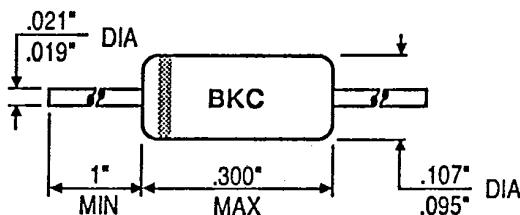
## ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage	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	T °C
Peak Inverse Voltage	PIV	1 mA	75		V	25 °C
Reverse Current	$I_r$	50 V		800	$\mu$ A	25 °C
Forward Voltage	$V_f$	10 mA		1	V	25 °C

## MECHANICAL



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

# Type No. 1N96

## GOLD BONDED GERMANIUM DIODE

6 Lake Street  
PO Box 1436  
Lawrence, MA 01841

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

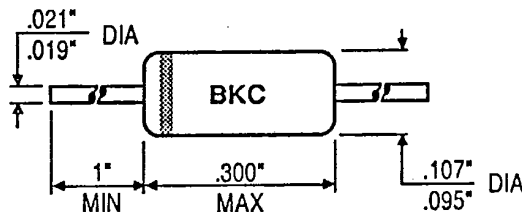
### ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage	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	T °C
Peak Inverse Voltage	PIV	1 mA	75		V	25 °C
Reverse Current	I <sub>r</sub>	50 V		800	μA	25 °C
Forward Voltage	V <sub>f</sub>	20 mA		1	V	25 °C

### MECHANICAL



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

Type No. 1N96A

GOLD BONDED GERMANIUM DIODE

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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

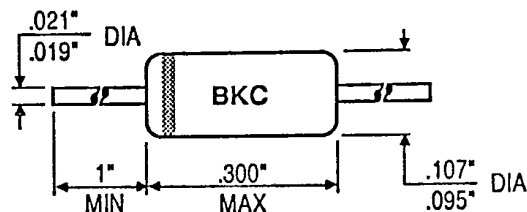
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage	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	I <sub>r</sub>	50 V		500	μA	25 °C
Forward Voltage	V <sub>f</sub>	40 mA		1	V	25 °C

MECHANICAL



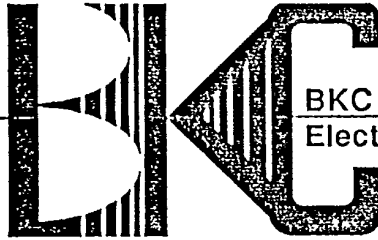
Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

## Type No. 1N97

## GOLD BONDED GERMANIUM DIODE

6 Lake Street  
PO Box 1436  
Lawrence, MA 01841

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

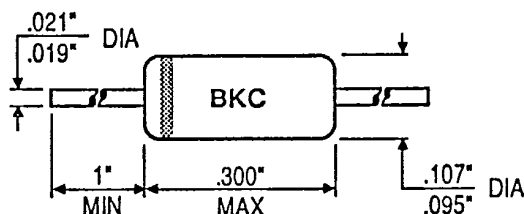
## ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage	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	I <sub>r</sub>	50 V		100	μA	25 °C
Forward Voltage	V <sub>f</sub>	10 mA		1	V	25 °C

## MECHANICAL



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

## Type No. 1N98

## GOLD BONDED GERMANIUM DIODE

6 Lake Street  
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Telephone (617) 681-0392  
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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

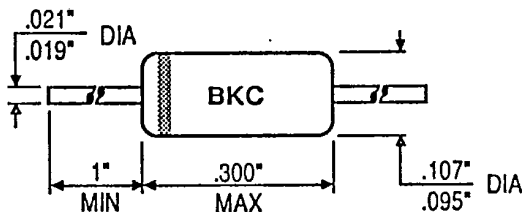
## ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage	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	$I_r$	50 V		100	$\mu$ A	25 °C
Forward Voltage	$V_f$	20 mA		1	V	25 °C

## MECHANICAL



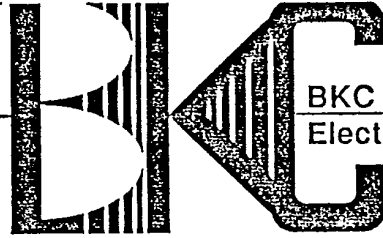
Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

## Type No. 1N98A

## GOLD BONDED GERMANIUM DIODE

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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

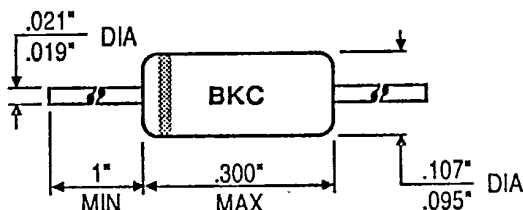
## ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage	250 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	250		V	25 °C
Reverse Current	I <sub>r</sub>	50 V		100	μA	25 °C
Forward Voltage	V <sub>f</sub>	40 mA		1	V	25 °C

## MECHANICAL



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



Type No. 1N99

GOLD BONDED GERMANIUM DIODE

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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

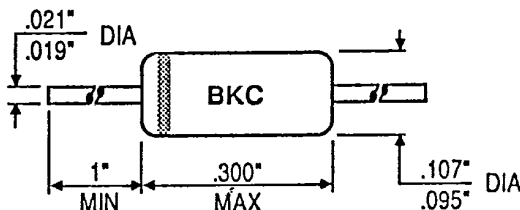
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage	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	I <sub>r</sub>	50 V		50	µA	25 °C
Forward Voltage	V <sub>f</sub>	10 mA		1	V	25 °C

MECHANICAL



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

**Type No. 1N100**

**GOLD BONDED GERMANIUM DIODE**

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**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

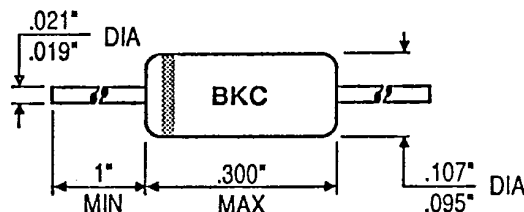
**ABSOLUTE MAXIMUM RATINGS** (at 25 °C, unless otherwise specified)

Peak Inverse Voltage	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	$I_r$	50 V		5	$\mu$ A	25 °C
Forward Voltage	$V_f$	20 mA		1	V	25 °C

**MECHANICAL**



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

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

ENGINEERING DATA SHEET

TYPE

1N100A

GOLD BONDED, GERMANIUM, DIODE

-----  
 ABSOLUTE MAXIMUM RATINGS

PEAK REVERSE VOLTAGE	100V
CONTINUOUS INVERSE OPERATING VOLTAGE	80V
RECURRENT PEAK FORWARD (60 CYCLES, 1/2 WAVE)	250mA
FORWARD SURGE CURRENT (1 SECOND)	400mA
POWER DISSIPATION	80mW
DERATING FACTOR ABOVE +25 DEGREES CELSIUS	10mW/10 DEGREES CELSIUS
OPERATING TEMPERATURE	-78 TO +90 DEGREES CELSIUS
STORAGE TEMPERATURE	-78 TO +100 DEGREES CELSIUS

-----  
 CHARACTERISTICS

PARAMETER	VF	IR	IR	PIV
CONDITION	40mA	5V	50V	1mA
TA	25C	25C	25C	25C
LIMITS				
MIN.	---	---	---	100V
MAX.	1V	5uA	50uA	---

-----  
 PACKAGE CONFIGURATION

GLASS CASE JEDEC DO-7  
 (INCHES)

LEAD LENGTH	1.125 MAX
LEAD DIAMETER	.020 +/- .002
BODY LENGTH	.270 MAX.
BODY DIAMETER	.095 MAX.

-----  
 MARKING

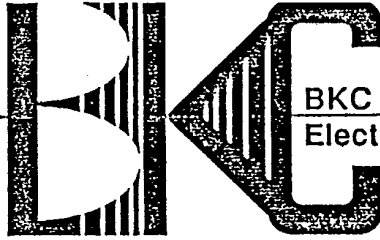
BLACK CATHODE BAND & BLACK DIGITAL PRINT

## Type No. 1N102

## GOLD BONDED GERMANIUM DIODE

6 Lake Street  
PO Box 1436  
Lawrence, MA 01841

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

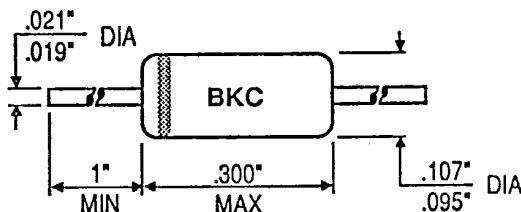
## ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage	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	$I_r$	25 V		3	$\mu$ A	25 °C
Forward Voltage	$V_f$	15 mA		1	V	25 °C

## MECHANICAL



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

## Type No. 1N103

## GOLD BONDED GERMANIUM DIODE

6 Lake Street  
PO Box 1436  
Lawrence, MA 01841

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

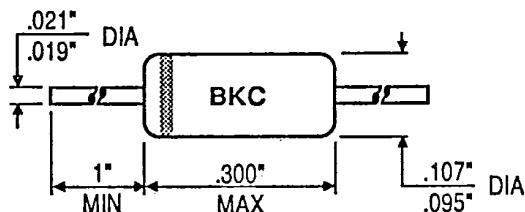
## ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage	12 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	12		V	25 °C
Reverse Current	$I_r$	5 V		100	$\mu$ A	25 °C
Forward Voltage	$V_f$	30 mA		1	V	25 °C

## MECHANICAL



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

## Type No. 1N104

## GOLD BONDED GERMANIUM DIODE

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PO Box 1436  
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Telephone (617) 681-0392  
TeleFax (617) 681-9135  
Telex 928377



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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

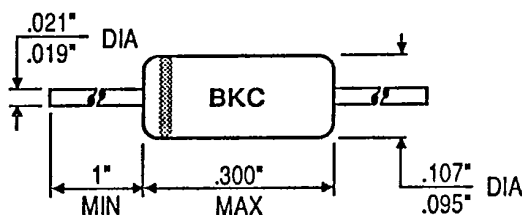
## ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage	12 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	12		V	25 °C
Reverse Current	I <sub>r</sub>	5 V		100	μA	25 °C
Forward Voltage	V <sub>f</sub>	30 mA		1	V	25 °C

## MECHANICAL



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

**Type No. 1N107**

**GOLD BONDED GERMANIUM DIODE**

6 Lake Street  
PO Box 1436  
Lawrence, MA 01841

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

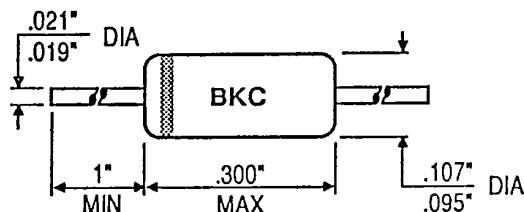
**ABSOLUTE MAXIMUM RATINGS** (at 25 °C, unless otherwise specified)

Peak Inverse Voltage	10 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	10		V	25 °C
Reverse Current	I <sub>r</sub>	10 V		200	μA	25 °C
Forward Voltage	V <sub>f</sub>	150 mA		1	V	25 °C

**MECHANICAL**



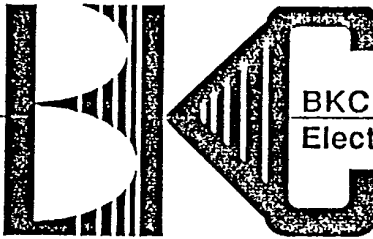
Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

## Type No. 1N108

## GOLD BONDED GERMANIUM DIODE

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PO Box 1436  
Lawrence, MA 01841

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TeleFax (617) 681-9135  
Telex 928377



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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

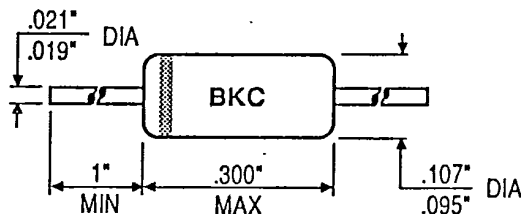
## ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage	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	$I_r$	50 V		200	$\mu$ A	25 °C
Forward Voltage	$V_f$	50 mA		1	V	25 °C

## MECHANICAL



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



Type No. 1N111

**GOLD BONDED GERMANIUM DIODE**

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PO Box 1436  
Lawrence, MA 01841



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Telephone (617) 681-0392  
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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

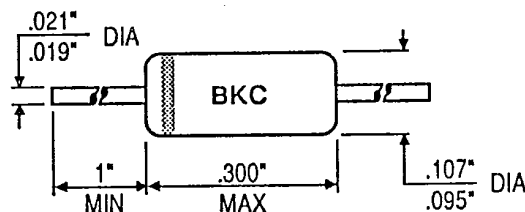
**ABSOLUTE MAXIMUM RATINGS** (at 25 °C, unless otherwise specified)

Peak Inverse Voltage	70 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	70		V	25 °C
Reverse Current	I <sub>r</sub>	10 V		25	μA	55 °C
Reverse Current	I <sub>r</sub>	50 V		125	μA	55 °C
Forward Voltage	V <sub>f</sub>	5 mA		1	V	25 °C

**MECHANICAL**



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

Type No. 1N112

GOLD BONDED GERMANIUM DIODE

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TeleFax (617) 681-9135  
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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

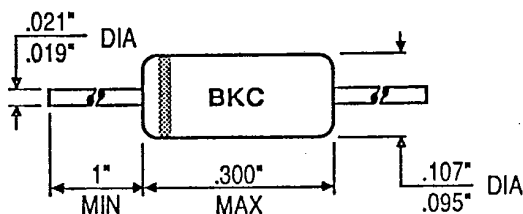
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage	70 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	70		V	25 °C
Reverse Current	I <sub>r</sub>	10 V		50	µA	55 °C
Reverse Current	I <sub>r</sub>	50 V		250	µA	55 °C
Forward Voltage	V <sub>f</sub>	5 mA		1	V	25 °C

MECHANICAL



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

## Type No. 1N113

## GOLD BONDED GERMANIUM DIODE

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Telex 928377



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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

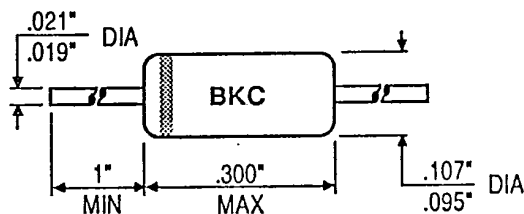
## ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage	70 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	70		V	25 °C
Reverse Current	I <sub>r</sub>	10 V		25	μA	55 °C
Reverse Current	I <sub>r</sub>	50 V		125	μA	55 °C
Forward Voltage	V <sub>f</sub>	2.5 mA		1	V	25 °C

## MECHANICAL



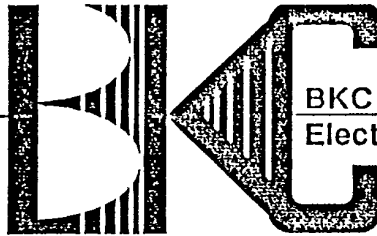
Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

## Type No. 1N114

## 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

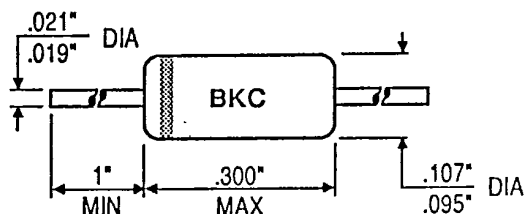
## ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage	70 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	70		V	25 °C
Reverse Current	$I_r$	10 V		50	$\mu$ A	55 °C
Reverse Current	$I_r$	50 V		500	$\mu$ A	55 °C
Forward Voltage	$V_f$	2.5 mA		1	V	25 °C

## MECHANICAL



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

Type No. 1N115

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



BKC International  
Electronics Inc.

**FEATURES**

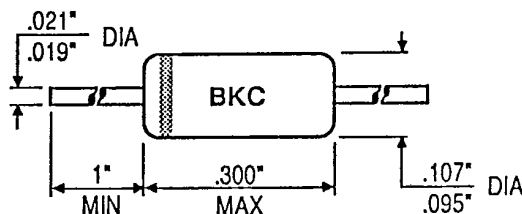
Low forward voltage drop—low power consumption  
Thirty years of proven reliability—one million hours mean time between failures (MTBF)  
Very low noise level  
Metallurgically bonded

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

Peak Inverse Voltage	70 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	70		V	25 °C
Reverse Current	$I_r$	10 V		100	$\mu$ A	55 °C
Reverse Current	$I_r$	50 V		500	$\mu$ A	55 °C
Forward Voltage	$V_f$	2.5 mA		1	V	25 °C

**MECHANICAL**

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

Type No. 1N116

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



BKC International  
Electronics Inc.

**FEATURES**

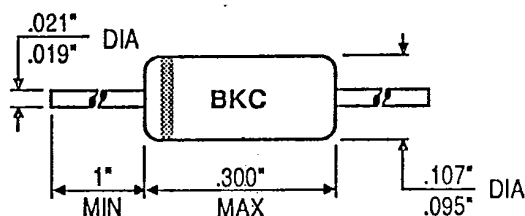
Low forward voltage drop—low power consumption  
Thirty years of proven reliability—one million hours mean time between failures (MTBF)  
Very low noise level  
Metallurgically bonded

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

Peak Inverse Voltage	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	T °C
Peak Inverse Voltage	PIV	1 mA	75		V	25 °C
Reverse Current	$I_r$	50 V		100	$\mu$ A	25 °C
Forward Voltage	$V_f$	5 mA		1	V	25 °C

**MECHANICAL**

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

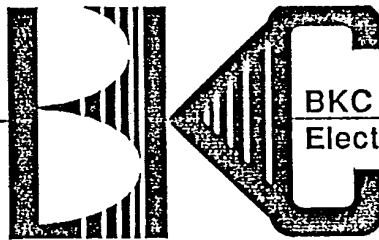
Type No. 1N117

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



BKC International  
Electronics Inc.

**FEATURES**

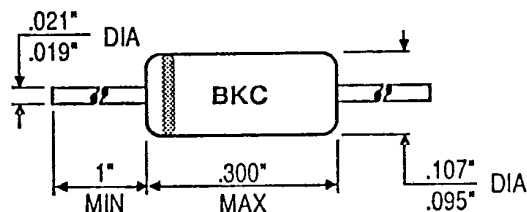
Low forward voltage drop—low power consumption  
Thirty years of proven reliability—one million hours mean time between failures (MTBF)  
Very low noise level  
Metallurgically bonded

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

Peak Inverse Voltage	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	T °C
Peak Inverse Voltage	PIV	1 mA	75		V	25 °C
Reverse Current	$I_r$	50 V		100	$\mu$ A	25 °C
Forward Voltage	$V_f$	10 mA		1	V	25 °C

**MECHANICAL**

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

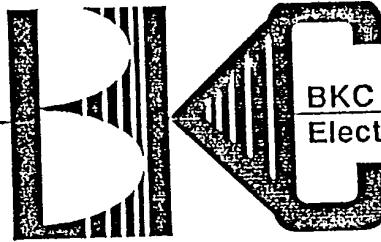
Type No. 1N118

T-01-07

GOLD BONDED GERMANIUM DIODE

6 Lake Street  
PO Box 1436  
Lawrence, MA 01841

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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

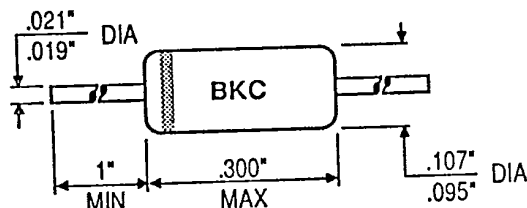
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage	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	T °C
Peak Inverse Voltage	PIV	1 mA	75		V	25 °C
Reverse Current	I <sub>r</sub>	50 V		100	μA	25 °C
Forward Voltage	V <sub>f</sub>	20 mA		1	V	25 °C

MECHANICAL



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



Type No. 1N118A

T-01-07

## GOLD BONDED GERMANIUM DIODE

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PO Box 1436  
Lawrence, MA 01841

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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

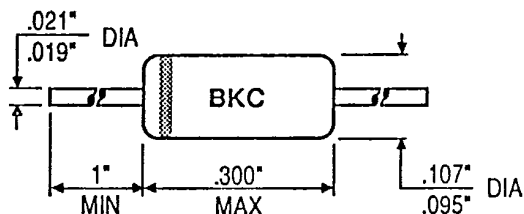
## ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage	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	T °C
Peak Inverse Voltage	PIV	1 mA	75		V	25 °C
Reverse Current	I <sub>r</sub>	50 V		100	μA	25 °C
Forward Voltage	V <sub>f</sub>	40 mA		1	V	25 °C

## MECHANICAL



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

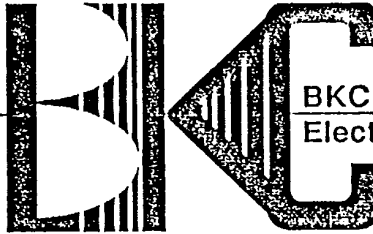
Type No. 1N119

T-03-07

**GOLD BONDED GERMANIUM DIODE**

6 Lake Street  
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Lawrence, MA 01841

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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

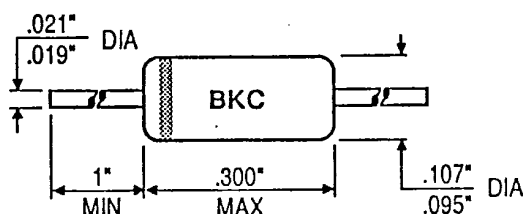
**ABSOLUTE MAXIMUM RATINGS** (at 25 °C, unless otherwise specified)

Peak Inverse Voltage	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	I <sub>r</sub>	50 V		125	μA	55 °C
Forward Voltage	V <sub>f</sub>	5 mA		1	V	25 °C
Reverse Recovery	T <sub>rr</sub>	See note		500		

NOTE: I<sub>f</sub> = 30, V<sub>r</sub> = -35, Recover to 50 kΩ.

**MECHANICAL**

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

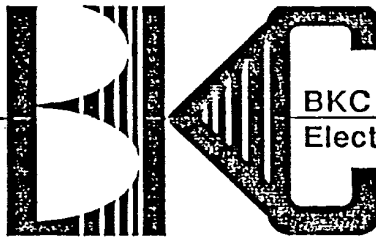
Type No. 1N120

T-03-07

**GOLD BONDED GERMANIUM DIODE**

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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

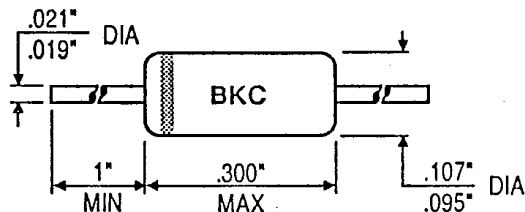
**ABSOLUTE MAXIMUM RATINGS** (at 25 °C, unless otherwise specified)

Peak Inverse Voltage	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	I <sub>r</sub>	50 V		250	μA	55 °C
Forward Voltage	V <sub>f</sub>	5 mA		1	V	25 °C
Reverse Recovery	T <sub>rr</sub>	See note		500		

NOTE: I<sub>f</sub> = 30, V<sub>r</sub> = -35, Recover to 50 kΩ.

**MECHANICAL**

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

Type No. 1N126

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



BKC International  
Electronics Inc.

**FEATURES**

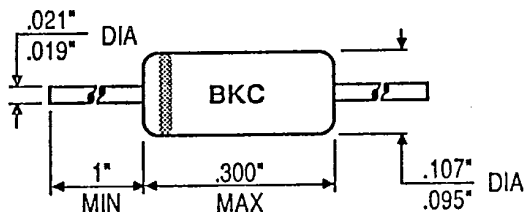
Low forward voltage drop—low power consumption  
Thirty years of proven reliability—one million hours mean time between failures (MTBF)  
Very low noise level  
Metallurgically bonded

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

Peak Inverse Voltage	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	T °C
Peak Inverse Voltage	PIV	1 mA	75		V	25 °C
Reverse Current	$I_r$	10 V		50	$\mu$ A	25 °C
Reverse Current	$I_r$	50 V		800	$\mu$ A	°C
Forward Voltage	$V_f$	5 mA		1	V	25 °C

**MECHANICAL**

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

Type No. 1N126A

T-01-07

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**FEATURES**

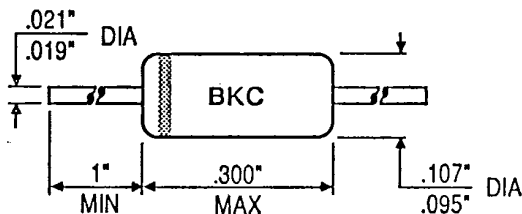
Low forward voltage drop—low power consumption  
Thirty years of proven reliability—one million hours mean time between failures (MTBF)  
Very low noise level  
Metallurgically bonded

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

Peak Inverse Voltage	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	T °C
Peak Inverse Voltage	PIV	1 mA	75		V	25 °C
Reverse Current	$I_r$	10 V		50	$\mu$ A	25 °C
Reverse Current	$I_r$	50 V		850	$\mu$ A	°C
Forward Voltage	$V_f$	25 mA		1	V	25 °C

**MECHANICAL**

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

Type No. 1N127

T-01-07

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Telex 928377



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Electronics Inc.

**FEATURES**

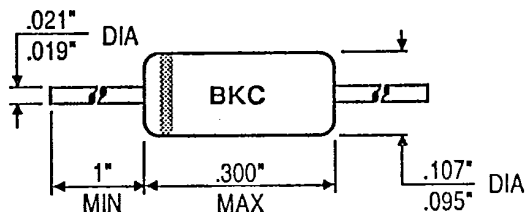
Low forward voltage drop—low power consumption  
Thirty years of proven reliability—one million hours mean time between failures (MTBF)  
Very low noise level  
Metallurgically bonded

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

Peak Inverse Voltage	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	$I_r$	10 V		25	$\mu$ A	25 °C
Reverse Current	$I_r$	50 V		300	$\mu$ A	°C
Forward Voltage	$V_f$	3 mA		1	V	25 °C

**MECHANICAL**

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

Type No. 1N127A

T-01-07

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**FEATURES**

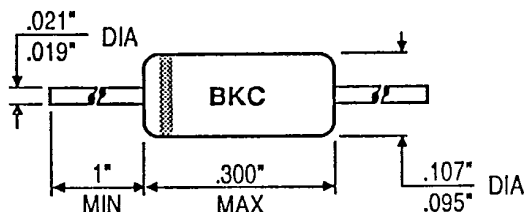
Low forward voltage drop—low power consumption  
Thirty years of proven reliability—one million hours mean time between failures (MTBF)  
Very low noise level  
Metallurgically bonded

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

Peak Inverse Voltage	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	I <sub>r</sub>	10 V		25	μA	25 °C
Reverse Current	I <sub>r</sub>	50 V		300	μA	°C
Forward Voltage	V <sub>f</sub>	25 mA		1	V	25 °C

**MECHANICAL**

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

Type No. 1N128

T-01-07

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 Lawrence, MA 01841  
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 TeleFax (617) 681-9135  
 Telex 928377



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 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

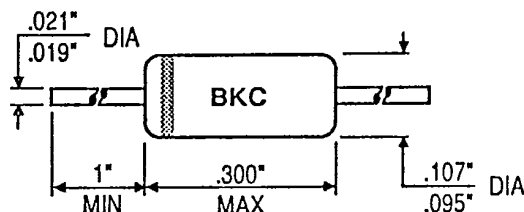
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage	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	I <sub>r</sub>	10 V		10	µA	25 °C
Forward Voltage	V <sub>f</sub>	3 mA		1	V	25 °C

MECHANICAL



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



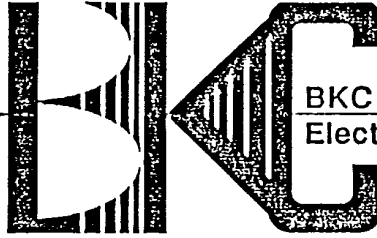
Type No. 1N128A

T-01-07

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Telex 928377



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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

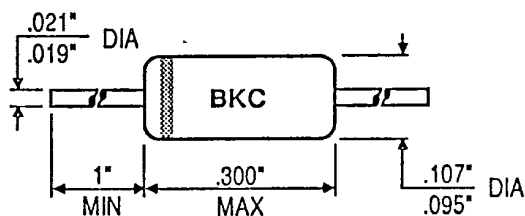
## ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage	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	I <sub>r</sub>	10 V		10	μA	25 °C
Forward Voltage	V <sub>f</sub>	3 mA		1	V	25 °C

## MECHANICAL



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

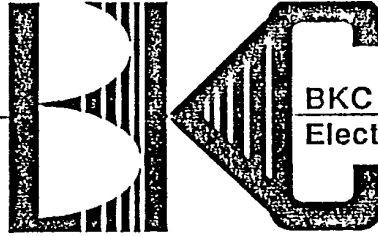
Type No. 1N133

T-01-07

## GOLD BONDED GERMANIUM DIODE

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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

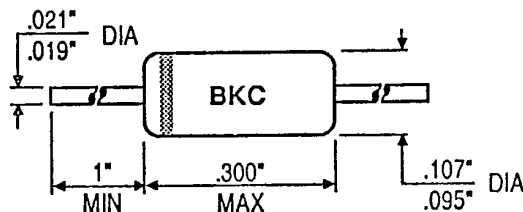
## ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage	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	T °C
Peak Inverse Voltage	PIV	1 mA	5		V	25 °C
Reverse Current	$I_r$	.6 V		300	$\mu$ A	25 °C
Forward Voltage	$V_f$	3 mA		.5	V	25 °C

## MECHANICAL



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

Type No. 1N139

T-01-07

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**FEATURES**

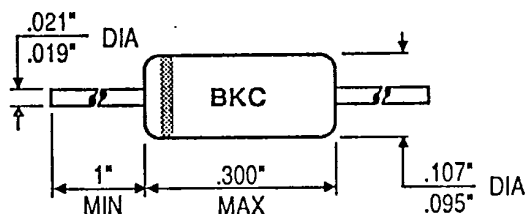
Low forward voltage drop—low power consumption  
Thirty years of proven reliability—one million hours mean time between failures (MTBF)  
Very low noise level  
Metallurgically bonded

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

Peak Inverse Voltage	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	$I_r$	50 V		1500	$\mu$ A	25 °C
Forward Voltage	$V_f$	20 mA		1	V	25 °C

**MECHANICAL**

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

Type No. 1N140

T-01-07

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**FEATURES**

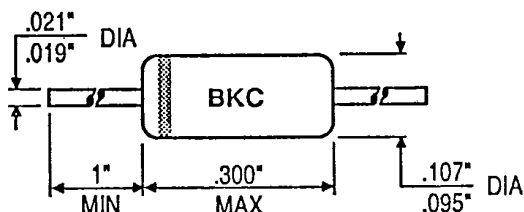
- Low forward voltage drop—low power consumption
- Thirty years of proven reliability—one million hours mean time between failures (MTBF)
- Very low noise level
- Metallurgically bonded

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

Peak Inverse Voltage	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	T °C
Peak Inverse Voltage	PIV	1 mA	85		V	25 °C
Reverse Current	I <sub>r</sub>	50 V		300	μA	25 °C
Forward Voltage	V <sub>f</sub>	40 mA		1	V	25 °C

**MECHANICAL**

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

Type No. 1N141

T-01-07

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6 Lake Street  
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Lawrence, MA 01841

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

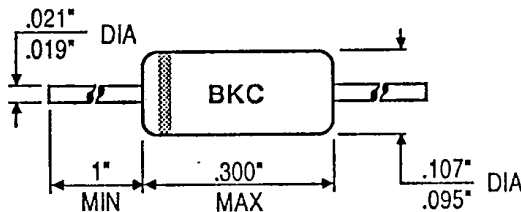
**ABSOLUTE MAXIMUM RATINGS** (at 25 °C, unless otherwise specified)

Peak Inverse Voltage	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	T °C
Peak Inverse Voltage	PIV	1 mA	85		V	25 °C
Reverse Current	I <sub>r</sub>	50 V		50	μA	25 °C
Forward Voltage	V <sub>f</sub>	20 mA		1	V	25 °C

**MECHANICAL**



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

Type No. 1N142

T-01-07

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Telex 928377



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Electronics Inc.

**FEATURES**

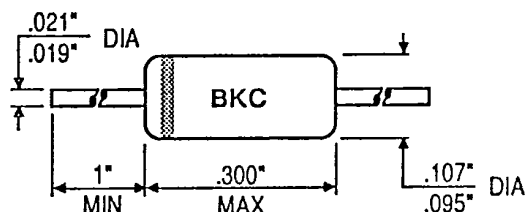
**Low forward voltage drop**—low power consumption  
**Thirty years of proven reliability**—one million hours mean time between failures (MTBF)  
**Very low noise level**  
**Metallurgically bonded**

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

Peak Inverse Voltage	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	$I_r$	100 V		100	$\mu$ A	25 °C
Forward Voltage	$V_f$	5 mA		1	V	25 °C

**MECHANICAL**

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

Type No. 1N143

T-01-07

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**FEATURES**

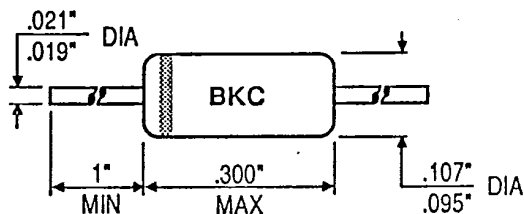
**Low forward voltage drop**—low power consumption  
**Thirty years of proven reliability**—one million hours mean time between failures (MTBF)  
**Very low noise level**  
**Metallurgically bonded**

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

Peak Inverse Voltage	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	I <sub>r</sub>	100 V		100	μA	25 °C
Forward Voltage	V <sub>f</sub>	40 mA		1	V	25 °C

**MECHANICAL**

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

Type No. 1N144

T-01-07

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**FEATURES**

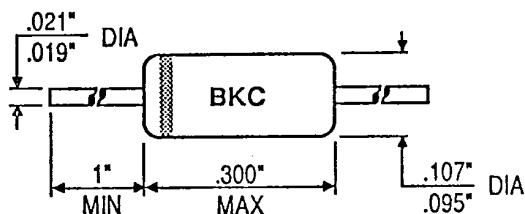
**Low forward voltage drop**—low power consumption  
**Thirty years of proven reliability**—one million hours mean time between failures (MTBF)  
**Very low noise level**  
**Metallurgically bonded**

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

Peak Inverse Voltage	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	PIV	1 mA	30		V	25 °C
Reverse Current	I <sub>r</sub>	100 V		200	μA	25 °C
Forward Voltage	V <sub>f</sub>	100 mA		1	V	25 °C

**MECHANICAL**

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



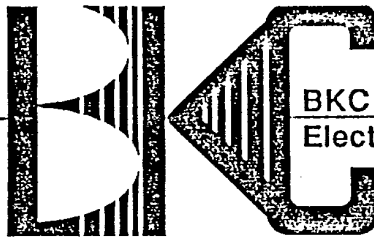
Type No. 1N145

T-01-07

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**FEATURES**

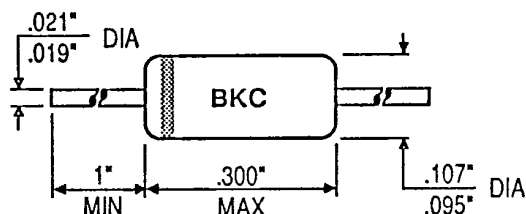
Low forward voltage drop—low power consumption  
Thirty years of proven reliability—one million hours mean time between failures (MTBF)  
Very low noise level  
Metallurgically bonded

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

Peak Inverse Voltage	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	PIV	1 mA	30		V	25 °C
Reverse Current	I <sub>r</sub>	10 V		100	μA	25 °C
Forward Voltage	V <sub>f</sub>	40 mA		1	V	25 °C

**MECHANICAL**

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

Type No. 1N191

T-03-07

**GOLD BONDED GERMANIUM DIODE**

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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)

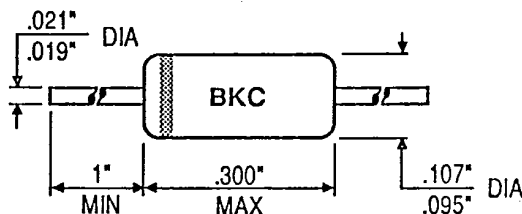
Peak Inverse Voltage	90 Volts
Peak Forward Current	500 mA
Operating Temperature Range	- 65 °C to 85 °C
Average Power Dissipation	80 mW

**ELECTRICAL CHARACTERISTICS**

	Symbol	Conditions	Min	Max	Unit	T °C
Peak Inverse Voltage	PIV	1 mA	90		V	25 °C
Reverse Current	I <sub>r</sub>	10 V		25	μA	25 °C
Reverse Current	I <sub>r</sub>	50 V		125	μA	55 °C
Forward Voltage	V <sub>f</sub>	5 mA		1	V	25 °C
Reverse Recovery	T <sub>rr</sub>	See Note		500	n Sec	

**Note:** I<sub>f</sub> = 30, V<sub>r</sub> = -35, Recover to 50 kΩ.

**MECHANICAL**



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

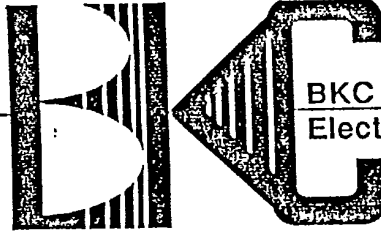
Type No. 1N192

T-03-07

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Telex 928377



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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

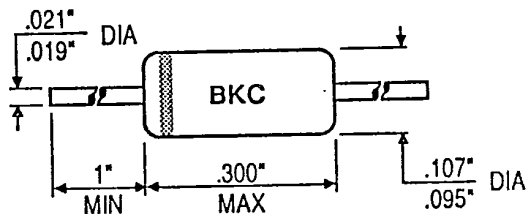
**ABSOLUTE MAXIMUM RATINGS** (at 25 °C, unless otherwise specified)

Peak Inverse Voltage	70 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	70		V	25 °C
Reverse Current	I <sub>r</sub>	10 V		20	μA	25 °C
Reverse Current	I <sub>r</sub>	70 V		50	μA	50 °C
Forward Voltage	V <sub>f</sub>	5 mA		1	V	25 °C
Reverse Recovery	T <sub>rr</sub>	See Note		500	n Sec	

Note: I<sub>f</sub> = 30, V<sub>r</sub> = -35, Recover to 50 kΩ.

**MECHANICAL**

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

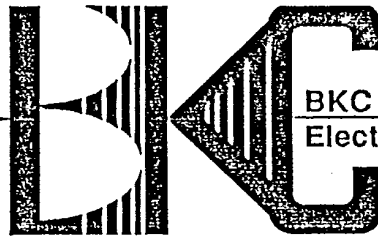
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T-01-07

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PO Box 1436  
Lawrence, MA 01841

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



BKC International  
Electronics Inc.

**FEATURES**

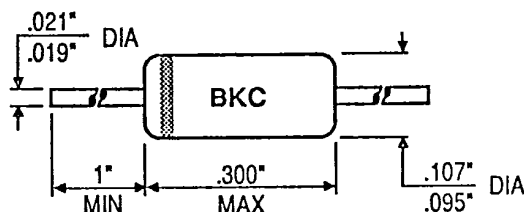
Low forward voltage drop—low power consumption  
Thirty years of proven reliability—one million hours mean time between failures (MTBF)  
Very low noise level  
Metallurgically bonded

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

Peak Inverse Voltage	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	T °C
Peak Inverse Voltage	PIV	1 mA	40		V	25 °C
Reverse Current	$I_r$	40 V		10	$\mu$ A	25 °C
Forward Voltage	$V_f$	2 mA		2	V	25 °C

**MECHANICAL**

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

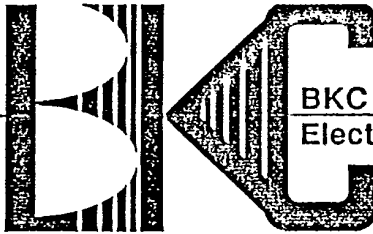
Type No. 1N198

T-01-07

**GOLD BONDED GERMANIUM DIODE**

6 Lake Street  
PO Box 1436  
Lawrence, MA 01841

Telephone (617) 681-0392  
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Electronics Inc.

**FEATURES**

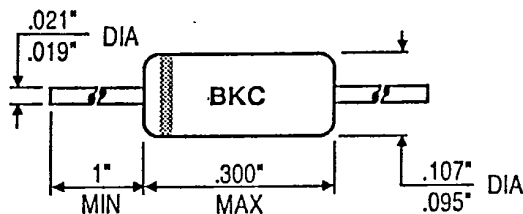
Low forward voltage drop—low power consumption  
Thirty years of proven reliability—one million hours mean time between failures (MTBF)  
Very low noise level  
Metallurgically bonded

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

Peak Inverse Voltage	80 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	80		V	25 °C
Reverse Current	I <sub>r</sub>	10 V		10	μA	25 °C
Reverse Current	I <sub>r</sub>	50 V		250	μA	75 °C
Forward Voltage	V <sub>f</sub>	4 mA		1	V	25 °C

**MECHANICAL**

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

Type No. 1N198A

T-01-07

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BKC International  
Electronics Inc.

**FEATURES**

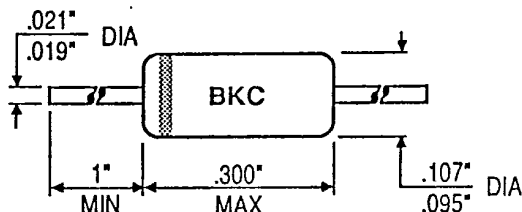
Low forward voltage drop—low power consumption  
Thirty years of proven reliability—one million hours mean time between failures (MTBF)  
Very low noise level  
Metallurgically bonded

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

Peak Inverse Voltage	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	I <sub>r</sub>	10 V		10	μA	25 °C
Reverse Current	I <sub>r</sub>	10 V		75	μA	75 °C
Forward Voltage	V <sub>f</sub>	4 mA		1	V	25 °C

**MECHANICAL**

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

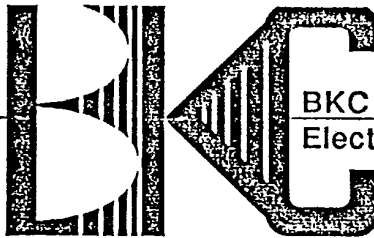
Type No. 1N198B

T-03-07

**GOLD BONDED GERMANIUM DIODE**

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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

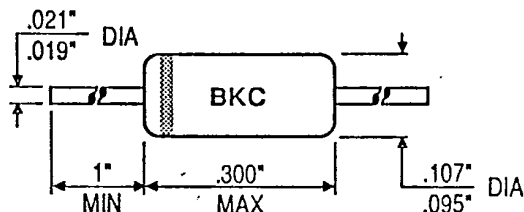
**ABSOLUTE MAXIMUM RATINGS** (at 25 °C, unless otherwise specified)

Peak Inverse Voltage	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	I <sub>r</sub>	50 V		50	μA	25 °C
Reverse Current	I <sub>r</sub>	50 V		250	μA	75 °C
Forward Voltage	V <sub>f</sub>	4 mA		1	V	25 °C
Reverse Recovery	T <sub>rr</sub>	See Note		300	n Sec	

Note: I<sub>f</sub> = 2, V<sub>r</sub> = -6, Recover to 50 k.

**MECHANICAL**

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

Type No. 1N265

T-01-07

**GOLD BONDED GERMANIUM DIODE**

6 Lake Street  
PO Box 1436  
Lawrence, MA 01841

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TeleFax (617) 681-9135  
Telex 928377



BKC International  
Electronics Inc.

**FEATURES**

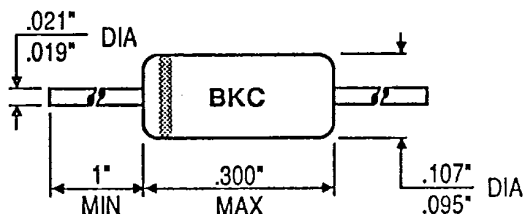
Low forward voltage drop—low power consumption  
Thirty years of proven reliability—one million hours mean time between failures (MTBF)  
Very low noise level  
Metallurgically bonded

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

Peak Inverse Voltage	90 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	90		V	25 °C
Reverse Current	I <sub>r</sub>	60 V		100	μA	25 °C
Forward Voltage	V <sub>f</sub>	3.2 mA		1	V	25 °C

**MECHANICAL**

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



Type No. 1N266

T-01-07

**GOLD BONDED GERMANIUM DIODE**

6 Lake Street  
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Lawrence, MA 01841



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Electronics Inc.

Telephone (617) 681-0392  
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**FEATURES**

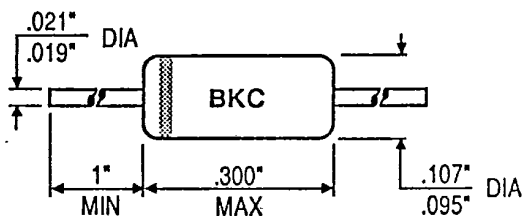
Low forward voltage drop—low power consumption  
Thirty years of proven reliability—one million hours mean time between failures (MTBF)  
Very low noise level  
Metallurgically bonded

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

Peak Inverse Voltage	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	$I_r$	30 V		75	$\mu$ A	25 °C
Forward Voltage	$V_f$	4 mA		1	V	25 °C

**MECHANICAL**

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

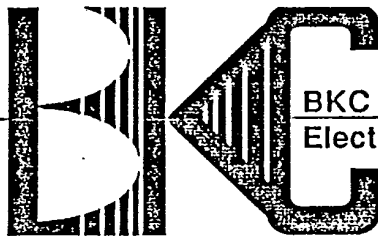
Type No. 1N267

T-01-07

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Electronics Inc.

**FEATURES**

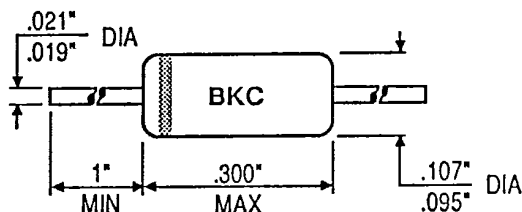
Low forward voltage drop—low power consumption  
Thirty years of proven reliability—one million hours mean time between failures (MTBF)  
Very low noise level  
Metallurgically bonded

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

Peak Inverse Voltage	25 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	25		V	25 °C
Reverse Current	I <sub>r</sub>	10 V		12	μA	25 °C
Forward Voltage	V <sub>f</sub>	3.5 mA		1	V	25 °C

**MECHANICAL**

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

Type No. 1N268

T-01-07

**GOLD BONDED GERMANIUM DIODE**

6 Lake Street  
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Lawrence, MA 01841

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Telex 928377



BKC International  
Electronics Inc.

**FEATURES**

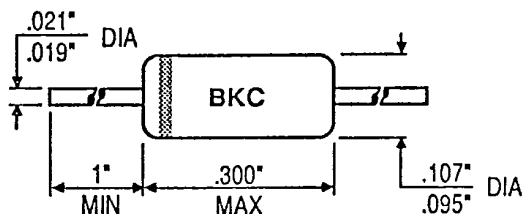
Low forward voltage drop—low power consumption  
Thirty years of proven reliability—one million hours mean time between failures (MTBF)  
Very low noise level  
Metallurgically bonded

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

Peak Inverse Voltage	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	PIV	1 mA	30		V	25 °C
Reverse Current	I <sub>r</sub>	10 V		20	μA	25 °C
Forward Voltage	V <sub>f</sub>	2.5 mA		1	V	25 °C

**MECHANICAL**

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

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

ENGINEERING DATA SHEET

1N270JTXV

GOLD BONDED, GERMANIUM, DIODE

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 ABSOLUTE MAXIMUM RATINGS

PEAK REVERSE VOLTAGE (V <sub>r</sub> )	100V(PK)
WORKING INVERSE VOLTAGE (VRM)	80V(PK)
RECURRENT PEAK FORWARD (60 CYCLES, 1/2 WAVE)	60mA
FORWARD CURRENT	325mA
SURGE CURRENT (1/120 SECOND)	1A
DERATE ABOVE + 25 DEGREES CELSIUS	0.923mA/DEGREES CELSIUS
OPERATING & STORAGE TEMPERATURE	-65 TO +100 DEGREES CELSIUS

-----  
 CHARACTERISTICS

PARA	VF	VF	IR	IR	IR	IR
COND	10mA	200mA	20V	80V	100V	10V
TA	25C	25C	25C	25C	25C	75C
LIMITS						
MAX.	.500V	1.0V	10uA	100uA	1mA	75uA

-----  
 PACKAGE CONFIGURATION

GLASS CASE JEDEC DO-7  
 (INCHES)

LEAD LENGTH	1.000 TO 1.500
LEAD DIAMETER	.018 TO .022
BODY LENGTH	.230 TO .300
BODY DIAMETER	.085 TO .130

-----  
 MARKING

BLACK CATHODE BAND & BLACK DIGITAL PRINT

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 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.  
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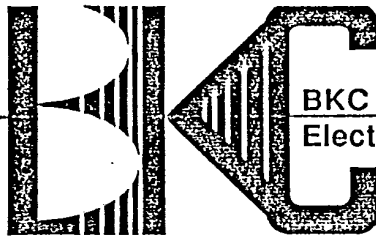
Type No. 1N273

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



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

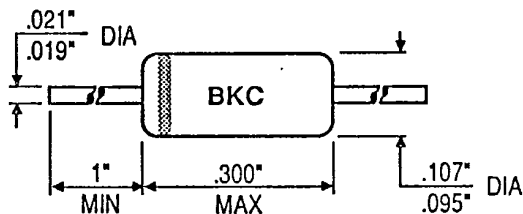
## ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage	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	PIV	1 mA	30		V	25 °C
Reverse Current	$I_r$	20 V		20	$\mu$ A	25 °C
Forward Voltage	$V_f$	100 mA		1	V	25 °C

## MECHANICAL



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



**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	500 mA
Operating Temperature	-65° C to +85° C
Average Power Dissipation	80 mW

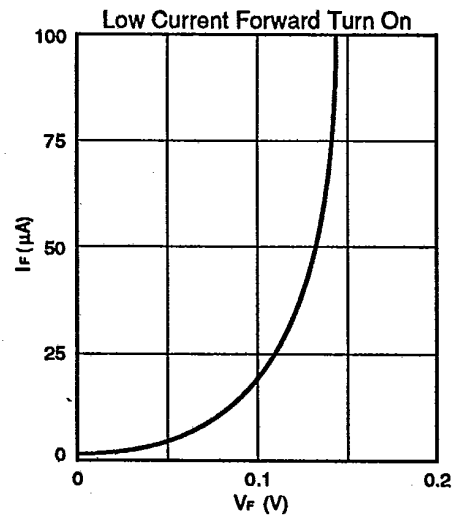
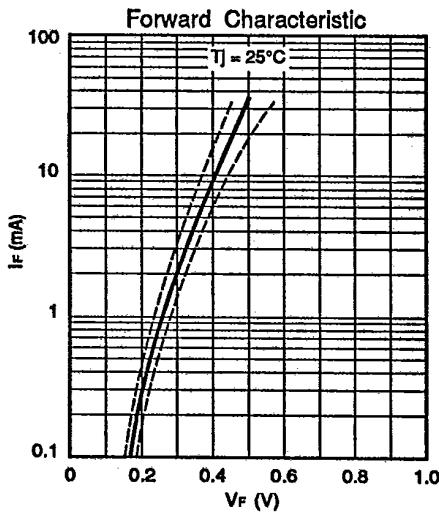
Note: 1. Tc @ 25°C, unless otherwise specified

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

Reverse Current [I <sub>R</sub> @ 50 V]	100 μA (max)
Reverse Current [I <sub>R</sub> @ 10 V, Tc @ 75°C]	100 μA (max)
Forward Voltage [V <sub>F</sub> @ 40 mA]	1 V (max)
Reverse Recovery <sup>2</sup>	300 nS (max)

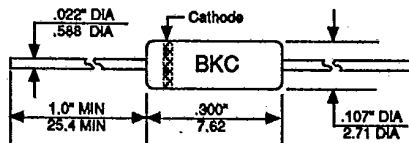
Note: 2. I<sub>F</sub> = 5 mA, V<sub>R</sub> = - 40 V, Recover in <

**Typical Electrical Performance**



**MECHANICAL**

JEDEC DO-7  
Package  
1/16" (MAX)  
mm



8004--9055

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USA 01841

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