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| | |
|----------------|------------------------------|
| Part Number | BAT54WS |
| product family | SMALL SIGNAL SCHOTTKY DIODES |
| package type | SOD-323 |
| VRM(PRV) | 30V |
| Ifsm | 200mA |
| IF(AV) | 200mA |
| @Vf | 1.0V |
| @If | 100mA |
| Trr | |
| IR | 0.2 μ A |
| @VR | 25V |
| Package Qty | Tape : 3K/Reel, 120K/Ctn; |

This product is listed under the following categories where you may find similar products:
[Diodes](#)
[Small Signal Schottky Diodes](#)

Features

- Case Material: Molded Plastic. UL Flammability Classificatio Rating 94-0 and MSL Rating 1
- High Reliability
- Low Forward Voltage and Low Reverse Current
- Small Surface Mount Type
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)

Maximum Ratings

| | | |
|---|-----------|--|
| Continuous Reverse Voltage | V_R | 30V |
| Continuous Forward Current | I_F | 200mA |
| Total Power Dissipation @ $T_A = 25^\circ\text{C}$ Derate above 25°C | P_D | 200mW 1.8mW/ $^\circ\text{C}$ |
| Junction Temperature | T_j | 125°C |
| Storage Temperature Range | T_{stg} | -55°C to 125°C |
| Device Marking : L9/JV | | |

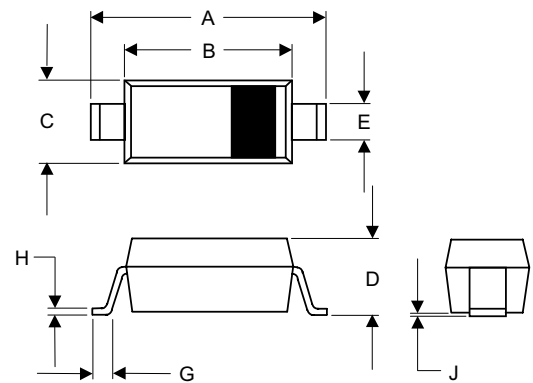
Electrical Characteristics @ 25°C Unless Otherwise Specified

| Ratings | Symbol | Max. | Notes |
|--|-----------------|--|--|
| Forward Voltage at $I_F = 0.1\text{mA}$ $I_F = 1\text{mA}$ $I_F = 10\text{mA}$ $I_F = 30\text{mA}$ $I_F = 100\text{mA}$ | V_F | 240mV 370mV 400mV 500mV 1000mV | |
| Reverse Current | I_R | $0.2\mu\text{A}$ $0.5\mu\text{A}$ | $V_R = 25\text{V}$ $V_R = 30\text{V}$ |
| Capacitance | C_J | 2.0pF | Measured at 1.0MHz , $V_R = 1.0\text{V}$ |
| Reverse Breakdown Voltage | $V_{(BR)}$ | $>30\text{V}$ | |
| Thermal Resistance Junction to Ambient | $R_{\theta JA}$ | 500K/W | |

BAT54WS

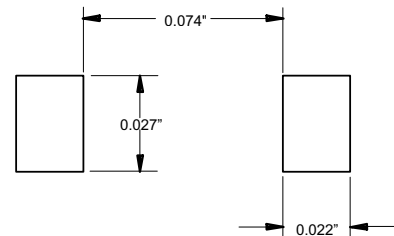
200mWatt, 30Volt Schottky Barrier Diode

SOD-323



| DIM | INCHES | | MM | | NOTE |
|-----|--------|------|-------|------|------|
| | MIN | MAX | MIN | MAX | |
| A | .090 | .107 | 2.30 | 2.70 | |
| B | .063 | .071 | 1.60 | 1.80 | |
| C | .045 | .053 | 1.15 | 1.35 | |
| D | .031 | .045 | 0.80 | 1.15 | |
| E | .010 | .016 | 0.25 | 0.40 | |
| G | .004 | .018 | 0.10 | 0.45 | |
| H | .004 | .010 | 0.10 | 0.25 | |
| J | ----- | .006 | ----- | 0.15 | |

SUGGESTED SOLDER PAD LAYOUT





Micro Commercial Components

Ordering Information

| Device | Packing |
|------------------|----------------------|
| (Part Number)-TP | Tape&Reel;3Kpcs/Reel |

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