

Features

- Halogen Free. "Green" Device (Note 1)
- AEC-Q101 Qualified
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)
- Extremely Low Thermal Resistance
- For Surface Mount Application And High Current Capability
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +125°C
- Storage Temperature Range: -55°C to +150°C
- Maximum Thermal Resistance:400°C/W Junction to Ambient

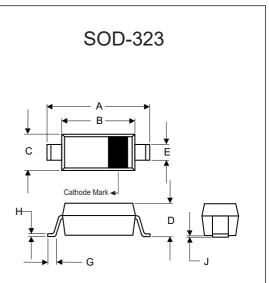
| MCC Part Number | Device Marking | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|--------------------|-------------------|---|------------------------|-----------------------------------|
| B0540WSHE3 | 4 | 40V | 28V | 40V |

Electrical Characteristics @ 25°C Unless Otherwise Specified

| | | 1 | |
|---|--------------------|--------|---|
| Average Forward Current | I _{F(AV)} | 0.5A | T _A =25 °C |
| Peak Forward Surge Current | I _{FSM} | 5A | 8.3ms Half Sine |
| Maximum Instantaneous Forward Voltage | V _F | 0.55V | I _{FM} =0.5А; Т _J =25 °С |
| Maximum DC Reverse Current at Rated DC Blocking Voltage | I _R | 0.08mA | V _R = 40V |
| Typical Junction Capacitance | CJ | 30pF | Measured at 1.0MHz,V _R =4.0V |
| Power Dissipation | P _D | 250mW | |

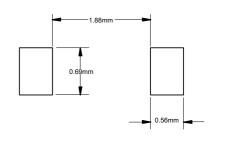
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

0.5 Amp Schottky Rectifier 40 Volts



| DIMENSIONS | | | | | | |
|------------|--------|-------|------|------|------|--|
| DIM | INCHES | | MM | | NOTE | |
| | MIN | MAX | MIN | MAX | NOTE | |
| А | 0.090 | 0.107 | 2.30 | 2.70 | | |
| В | 0.063 | 0.071 | 1.60 | 1.80 | | |
| С | 0.045 | 0.053 | 1.15 | 1.35 | | |
| D | 0.031 | 0.045 | 0.80 | 1.15 | | |
| E | 0.010 | 0.016 | 0.25 | 0.40 | | |
| G | 0.004 | 0.018 | 0.10 | 0.45 | | |
| Н | 0.004 | 0.010 | 0.10 | 0.25 | | |
| J | | 0.006 | | 0.15 | | |

Suggested Solder Pad Layout

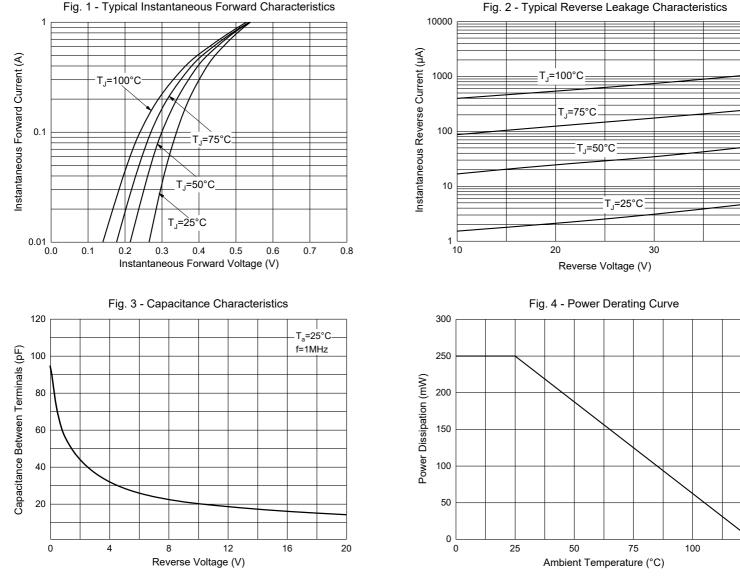


40

125



Curve Characteristics





Ordering Information

| Device | Packing | |
|----------------|-----------------------|--|
| Part Number-TP | Tape&Reel: 3Kpcs/Reel | |

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