

Features

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

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Maximum Thermal Resistance: 244°C/W Junction to Ambient

| MCC Part Number | Repetitive Peak Reverse Voltage V _{RRM} | RMS Reverse Voltage V _{R(RMS)} | DC Blocking Voltage V _R |
|--------------------|---|--|--|
| B0540HE3 | 40V | 28V | 40V |

Electrical Characteristics @ 25°C Unless Otherwise Specifie

| Average Forward Current | I _{F(AV)} | 0.5A | T _A =25°C (Note 2) |
|-------------------------------|--------------------|-------|-------------------------------|
| Peak Forward Surge Current | I _{FSM} | 5.5A | @ t=8.3ms |
| Power Dissipation | P _D | 410mW | T _A =25°C |

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

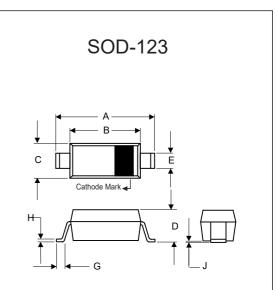
2. Part mounted on FR-4 board with recommended pad layout.

Internal Structure and Marking Code



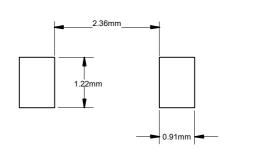






| DIMENSIONS | | | | | |
|------------|--------|-------|------|------|------|
| DIM | INCHES | | MM | | NOTE |
| | MIN | MAX | MIN | MAX | NOTE |
| А | 0.140 | 0.152 | 3.55 | 3.85 | |
| В | 0.100 | 0.112 | 2.55 | 2.85 | |
| С | 0.055 | 0.071 | 1.40 | 1.80 | |
| D | | 0.053 | | 1.35 | |
| Е | 0.018 | 0.026 | 0.45 | 0.65 | |
| G | 0.006 | | 0.15 | | |
| Н | | 0.010 | | 0.25 | |
| J | | 0.006 | | 0.15 | |

Suggested Solder Pad Layout

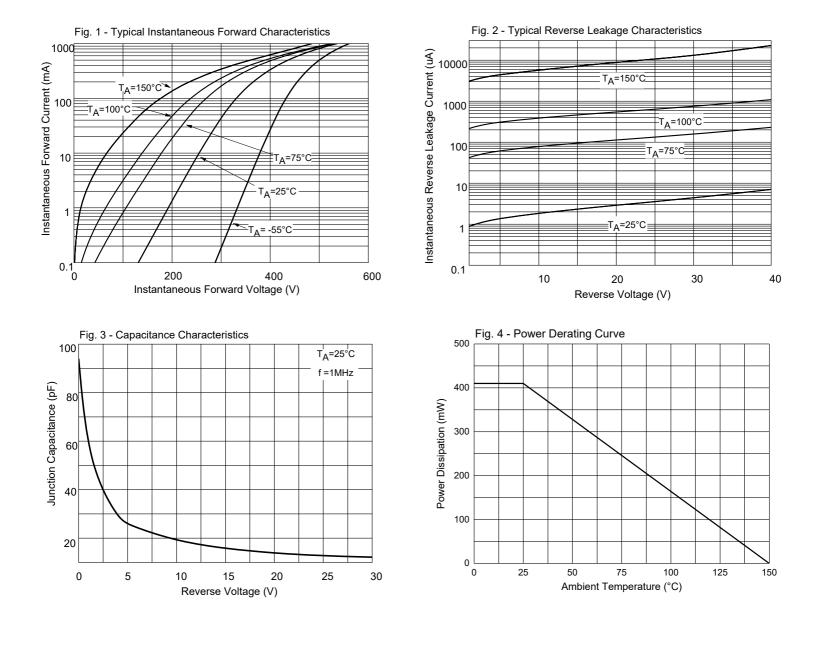




Electrical Characteristics @ 25°C (Unless Otherwise Specified)

| Parameter | Symbol | Conditions | Min. | Тур. | Max. | Units |
|---------------------------|-----------------|--|------|------|------|-------|
| Reverse Breakdown Voltage | V _{BR} | Ι _R =100μΑ | 40 | | | V |
| Forward Voltage | V _F | I _F =0.5A | | | 0.55 | V |
| Reverse Current | I _R | V _R =40V | | | 80 | μA |
| Junction Capacitance | CJ | $V_R = 4V, f = 1MHz$ | | | 30 | pF |
| Reverse Recovery Time | t _{rr} | I _F =I _R =10mA, I _{rr} =0.1×I _R ,R _L =100Ω | | | 20 | ns |

Curve Characteristics







Ordering Information

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

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