

Features

- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)
- · Small Surface Mounting Type
- Low Reverse Current and Low Forward Voltage
- High Reliability
- Halogen Free. "Green" Device (Note 1)
- 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
- Thermal Resistance: 400°C/W Junction to Ambient
- Thermal Resistance: 180°C/W Junction to Case

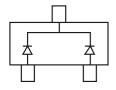
| MCC Part Number | Device Marking | Maximum Recurrent Peak Reverse Voltage | Maximum DC Blocking Voltage |
|--------------------|-------------------|---|-----------------------------------|
| RB495DS | D3Q | 40V | 25V |

Electrical Characteristics @ 25°C Unless Otherwise Specified

| Mean Rectifying Current | Io | 400mA | |
|-------------------------------|------------------|------------------------|---|
| Peak Forward Surge Current | I _{FSM} | 2.0A | t=8.3ms |
| Forward Voltage | V _F | 0.3V(Max) 0.5V(Max) | I _F =10mA I _F =200mA |
| Reverse Current | I _R | 70μA(Max) | V _R = 25V |

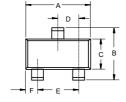
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

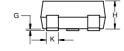
Internal Structure:



0.4 Amp Schottky Barrier Rectifier 25 Volts

SOT-23

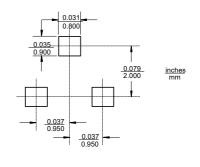






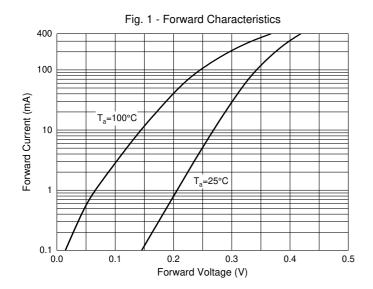
| DIMENSIONS | | | | | | | |
|------------|--------|-------|------|------|------|--|--|
| DIM | INCHES | | MM | | NOTE | | |
| DIIVI | MIN | MAX | MIN | MAX | NOTE | | |
| Α | 0.110 | 0.120 | 2.80 | 3.04 | | | |
| В | 0.083 | 0.104 | 2.10 | 2.64 | | | |
| С | 0.047 | 0.055 | 1.20 | 1.40 | | | |
| D | 0.034 | 0.041 | 0.85 | 1.05 | | | |
| Е | 0.067 | 0.083 | 1.70 | 2.10 | | | |
| F | 0.018 | 0.024 | 0.45 | 0.60 | | | |
| G | 0.0004 | 0.006 | 0.01 | 0.15 | | | |
| Н | 0.035 | 0.043 | 0.90 | 1.10 | | | |
| J | 0.003 | 0.007 | 0.08 | 0.18 | | | |
| K | 0.012 | 0.020 | 0.30 | 0.51 | | | |
| L | 0.007 | 0.020 | 0.20 | 0.50 | | | |

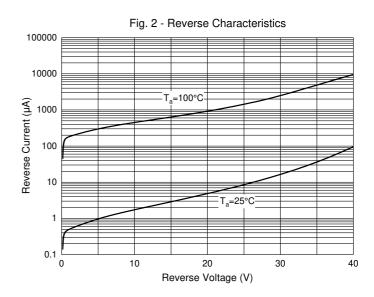
Suggested Solder Pad Layout

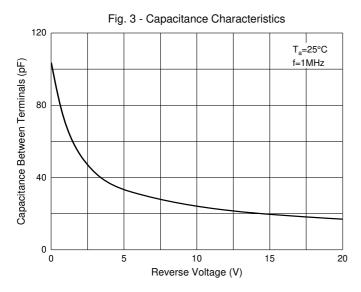


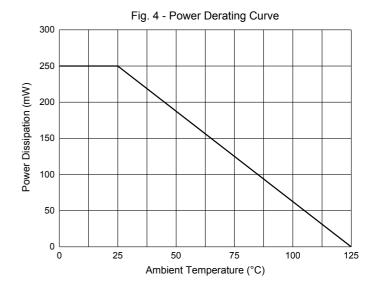


Curve Characteristics











Ordering Information

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

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