



MICRO SURFACE MOUNT SCHOTTKY BRIDGE

VOLTAGE 40 Volt CURRENT 2 Ampere

FEATURES

- · Plastic package has Underwriters Laboratory Flammability Classification 94V-O.
 - Flame Retardant Epoxy Molding Compound.
- · Exceeds environmental standards of MIL-S-19500/228
- · Low power loss, high efficiency.
- · Low forward voltage, high current capability
- · High surge capacity.
- · Super fast recovery times, high voltage.
- · Epitaxial chip construction.
- · Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

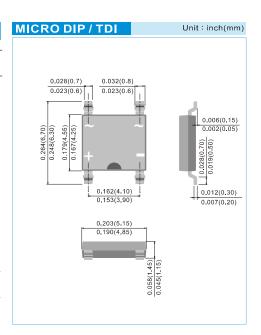
MECHANICAL DATA

· Case: TDI Molded plastic

• Terminals: Lead solderable per MIL-STD-750, Method 2026

· Polarity: As marked. · Standard packaging: Any

• Weight: 0.003 ounces, 0.090 grams.



ABSOLUTE MAXIMUM RATINGS (TA=25°C unless otherwise noted)

| PARAMETER | SYMBOL | VALUE | UNITS |
|--|--------|-------------|-------|
| Maximum Peak Repetitve Reverse Voltage | VRRM | 40 | ٧ |
| Maximum RMS Reverse Voltage | VRMS | 28 | ٧ |
| Maximum DC Blocking Voltage | VR | 40 | ٧ |
| Maximum Average Forward Current | lf(AV) | 2 | А |
| Non-Repetitive Peak Surge Current (Surge applied at rate Load conditions halfware, single phase, 60Hz) | IFSM | 50 | Α |
| Typical Thermal Resistance, Junction to Ambient (Note1) | Roja | 145 | °C/W |
| Operating Junction Temperature Range | TJ | -55 to +150 | °C |
| Storage Temperature Range | Тѕтс | -55 to +150 | °C |

NOTES: 1. Mounted on an FR4 PCB, single-sided copper, mini pad.

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ELECTRICAL CHARACTERISTICS (TA=25°C unless otherwise noted)

| PARAMETER | SYMBOL | CONDITIONS | MIN | TYP | MAX. | UNIT |
|---------------------------|-----------------|---------------------|-----|-----|------|------|
| Reverse Breakdown Voltage | V _{BR} | I R=150μA | 40 | - | - | V |
| Forward Voltage | VF | If=2A | - | - | 0.5 | V |
| Reverse Current | I R | V _R =40V | - | - | 50 | μА |

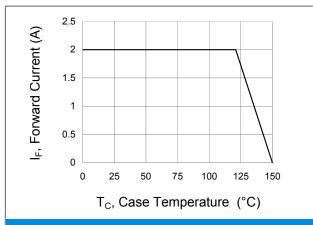


Fig.1 Forward Current Derating Curve

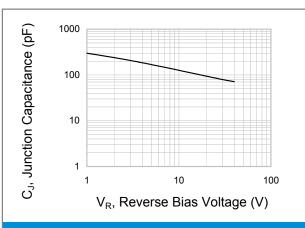


Fig.2 Typical Junction Capacitance

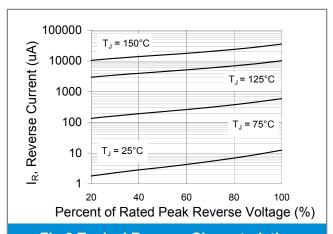


Fig.3 Typical Reverse Characteristics

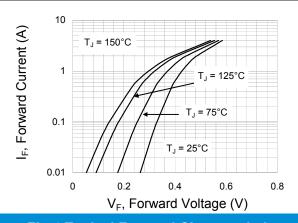


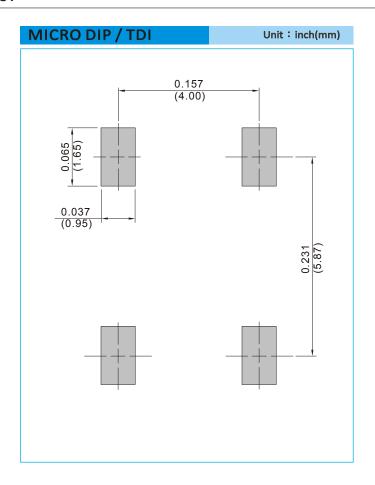
Fig.4 Typical Forward Characteristics

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MOUNTING PAD LAYOUT



ORDER INFORMATION

· Packing information

T/R - 4K per 13" plastic Reel

T/R - 1K per 7" plastic Reel





Part No_packing code_Version

TS240S_R1_00001 TS240S_R2_00001

For example :



| Packing Code XX | | | Version Code XXXXX | | | |
|--------------------------------------|----------------------|-----------------------------------|----------------------|------------|----------|---------------------------------------|
| Packing type | 1 st Code | Packing size code | 2 nd Code | HF or RoHS | 1st Code | 2 nd ~5 th Code |
| Tape and Ammunition Box (T/B) | A | N/A | 0 | HF | 0 | serial number |
| Tape and Reel (T/R) | R | 7" | 1 | RoHS | 1 | serial number |
| Bulk Packing (B/P) | В | 13" | 2 | | | |
| Tube Packing (T/P) | Т | 26mm | X | | | |
| Tape and Reel (Right Oriented) (TRR) | S | 52mm | Y | | | |
| Tape and Reel (Left Oriented) (TRL) | L | PANASERT T/B CATHODE UP (PBCU) | U | | | |
| FORMING | F | PANASERT T/B CATHODE DOWN (PBCD) | D | | | |

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