



TS240S

MICRO SURFACE MOUNT SCHOTTKY BRIDGE

VOLTAGE 40 Volts **CURRENT** 2 Amperes

MICRO DIP / TDI

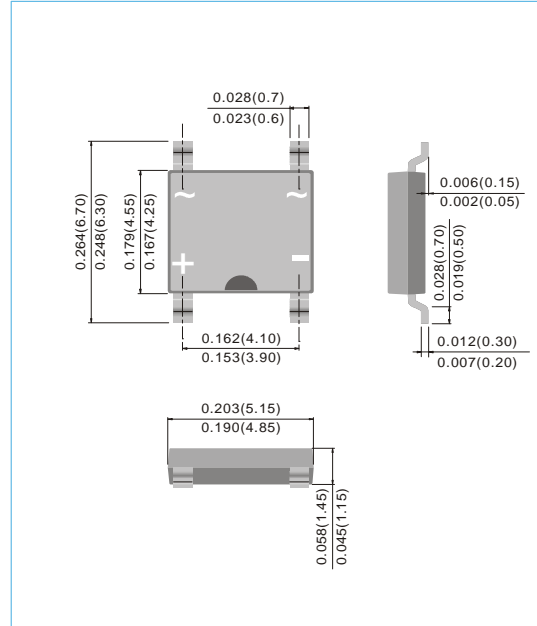
Unit : inch(mm)

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 comply with EU RoHS 2011/65/EU directives.
- 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 (T_A=25°C unless otherwise noted)

| PARAMETER | SYMBOL | VALUE | UNITS |
|--|--------------------|-------------|-------|
| Maximum Peak Repetitive Reverse Voltage | V _{RRM} | 40 | V |
| Maximum RMS Reverse Voltage | V _{RMS} | 28 | V |
| Maximum DC Blocking Voltage | V _R | 40 | V |
| Maximum Average Forward Current | I _{F(AV)} | 2 | A |
| Non-Repetitive Peak Surge Current (Surge applied at rate Load conditions halfwave, single phase, 60Hz) | I _{FSM} | 50 | A |
| Typical Thermal Resistance, Junction to Ambient (Note1) | R _{θJA} | 145 | °C/W |
| Operating Junction Temperature Range | T _J | -55 to +150 | °C |
| Storage Temperature Range | T _{STG} | -55 to +150 | °C |

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



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

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

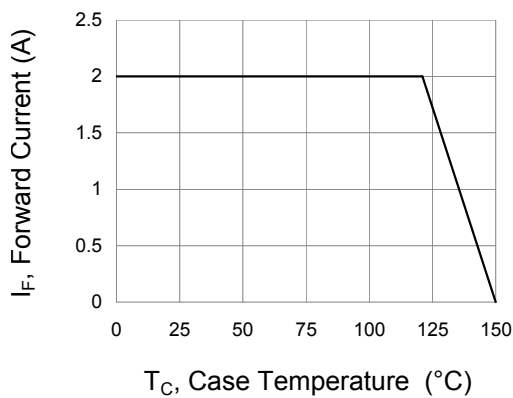


Fig.1 Forward Current Derating Curve

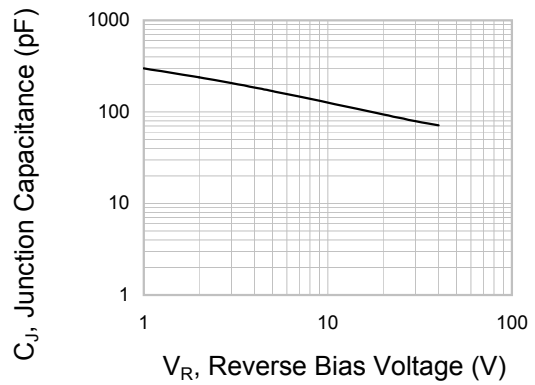


Fig.2 Typical Junction Capacitance

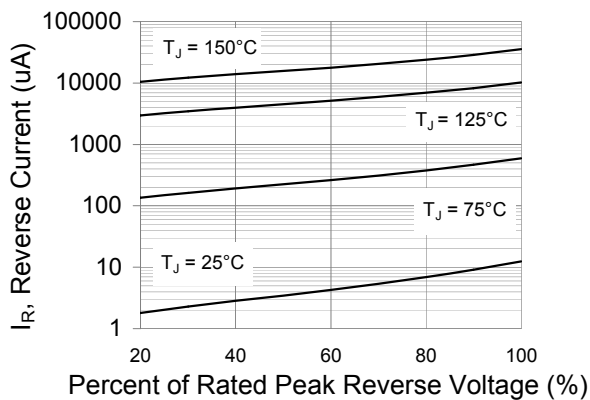


Fig.3 Typical Reverse Characteristics

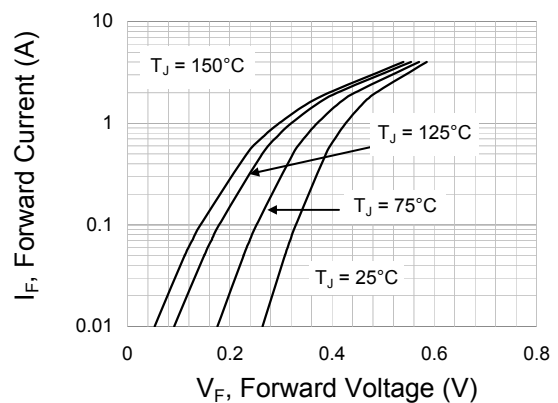


Fig.4 Typical Forward Characteristics

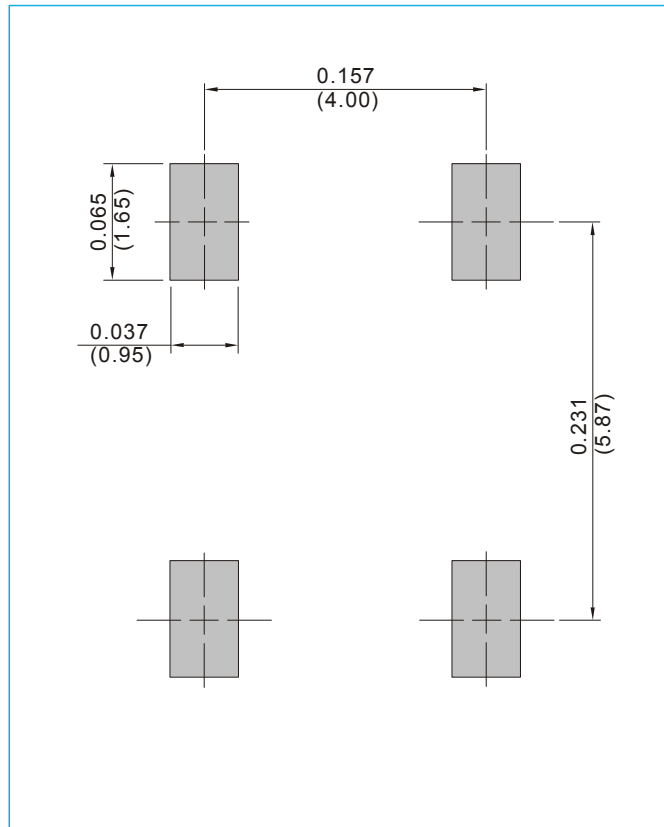


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MOUNTING PAD LAYOUT

MICRO DIP / TDI

Unit : inch(mm)



ORDER INFORMATION

- Packing information
T/R - 4K per 13" plastic Reel
T/R - 1K per 7" plastic Reel



TS240S

Part No_packing code_Version

TS240S_R1_00001

TS240S_R2_00001

For example :

RB500V-40 **R2** **00001**



| Packing Code XX | | | | Version Code XXXXX | | |
|--------------------------------------|----------------------|----------------------------------|----------------------|--------------------|----------------------|---------------------------------------|
| Packing type | 1 st Code | Packing size code | 2 nd Code | HF or RoHS | 1 st 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) | B | 13" | 2 | | | |
| Tube Packing (T/P) | T | 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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