

**SURFACE MOUNT SCHOTTKY BARRIER
BRIDGE RECTIFIERS**

REVERSE VOLTAGE - **40** Volts
FORWARD CURRENT - **1.0** Ampere

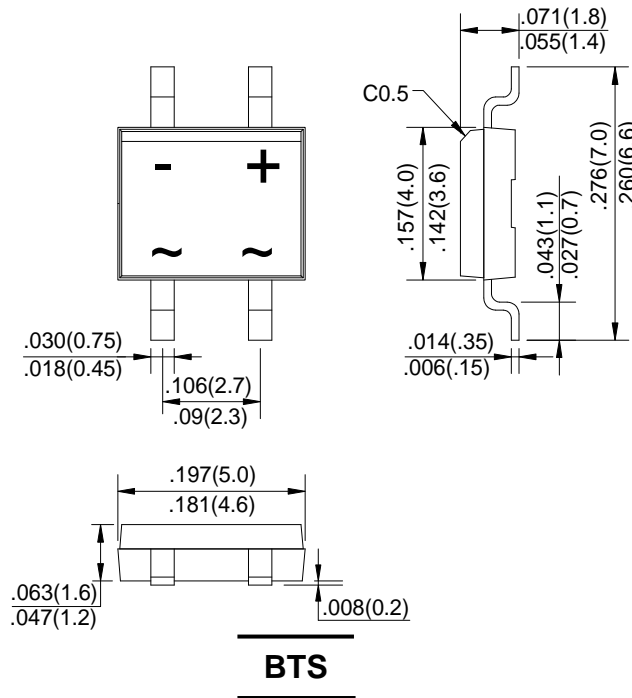
Features

- 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 efficiency.
- High surge capacity.
- Super fast recovery times,high voltage.
- Epitaxial chip construction.
- Lead free in comply with EU RoHS 2002/95/EC directives.

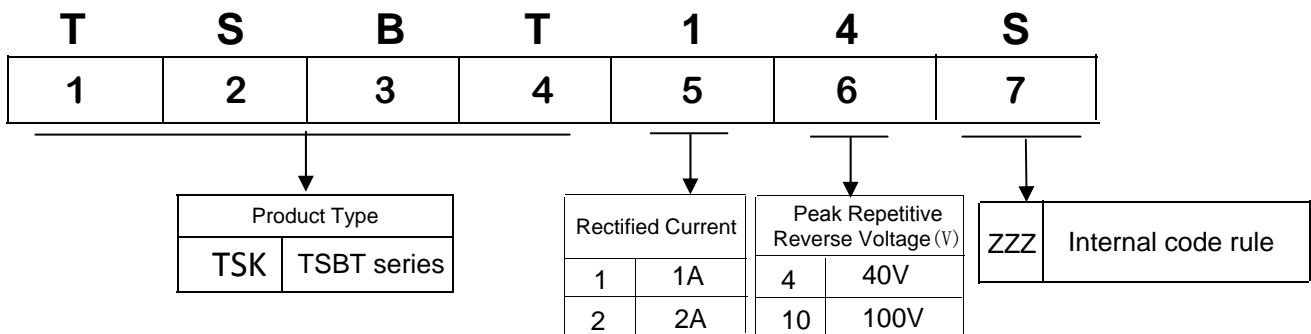
MECHANICAL DATA

- Polarity:Symbol molded on body
- Mounting position :Any

Dimensions In Inches and (millimeters)



Part Number Code



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specified.

Single phase, half wave ,60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

| CHARACTERISTICS | SYMBOL | TSBT14S | UNIT |
|--|--------|-------------|------|
| Maximum Recurrent Peak Reverse Voltage | VRRM | 40 | V |
| Maximum RMS Voltage | VRMS | 28 | V |
| Maximum DC Blocking Voltage | VDC | 40 | V |
| Maximum Average Forward Current @Tc=50 °C | I(AV) | 1 | A |
| Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load(JEDEC Method) | IFSM | 30 | A |
| Peak Forward Voltage at 1.0A DC | VF | 0.55 | V |
| Maximum DC Reverse Current @Tj=25°C at Rated DC Bolcking Voltage @Tj=125°C | IR | 0.5 50 | mA |
| Typical Junction Capacitance Per Element (Note1) | CJ | 85 | pF |
| Typical Thermal Resistance (Note3) | RθJA | 85 | °C/W |
| Operating Temperature Range | TJ | -55 to +150 | °C |
| Storage Temperature Range | TSTG | -55 to +150 | °C |

NOTES:1.Measured at1.0MHz and applied reverse voltage of 4.0V DC.

2.The typical data above is for reference only(典型值仅供参考).

RATING AND CHARACTERISTIC CURVES

FIG.1-FORWARD CURRENT DERATING CURVE

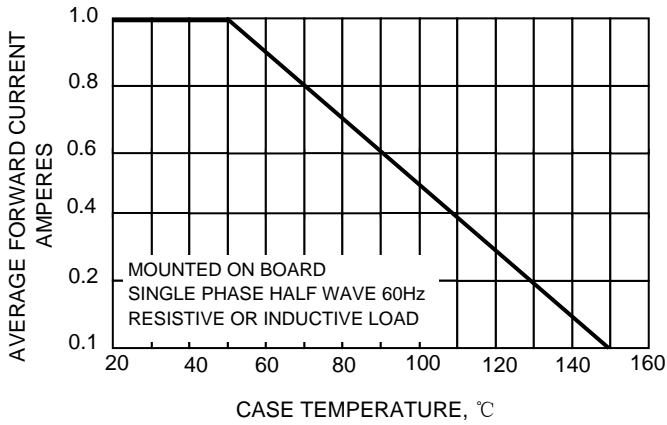


FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

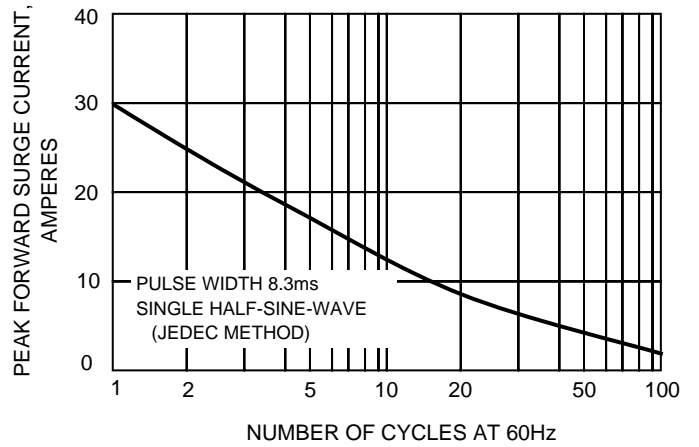


FIG.3-TYPICAL REVERSE CHARACTERISTICS

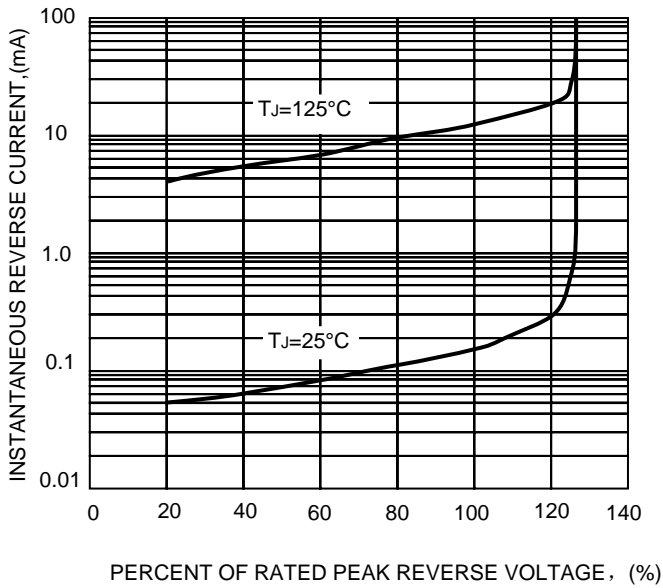


FIG.4-TYPICAL FORWARD CHARACTERISTICS

