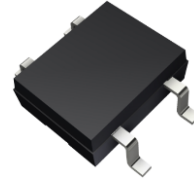
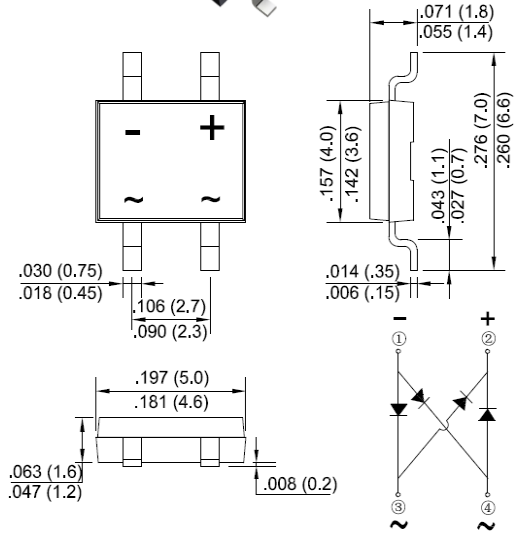


Surface Mount Schottky Barrier Bridge Rectifiers
Reverse Voltage - 40 Volts
Forward Current - 1.0 Amperes
Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0 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

BTS

RoHS COMPLIANT


Dimensions in inches and (millimeters)

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	SBT14S	Unit
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	40	V
Maximum RMS Voltage	V _{RMS}	28	V
Maximum DC Blocking Voltage	V _{DC}	40	V
Maximum Average Forward Current @T _C =50 °C	I _(AV)	1	A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load(JEDEC Method)	I _{FSM}	30	A
Peak Forward Voltage at 1.0A DC	V _F	0.55	V
Maximum DC Reverse Current @T _J =25°C at Rated DC Blocking Voltage @T _J =125°C	I _R	0.5 50	mA
Typical Junction Capacitance Per Element (Note1)	C _J	85	pF
Typical Thermal Resistance (Note3)	R _{θJA}	85	°C/W
Operating Temperature Range	T _J	-55 to +150	°C
Storage Temperature Range	T _{STG}	-55 to +150	°C

NOTES: 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

2. The typical data above is for reference only

Fig. 1 - Forward Current Derating Curve

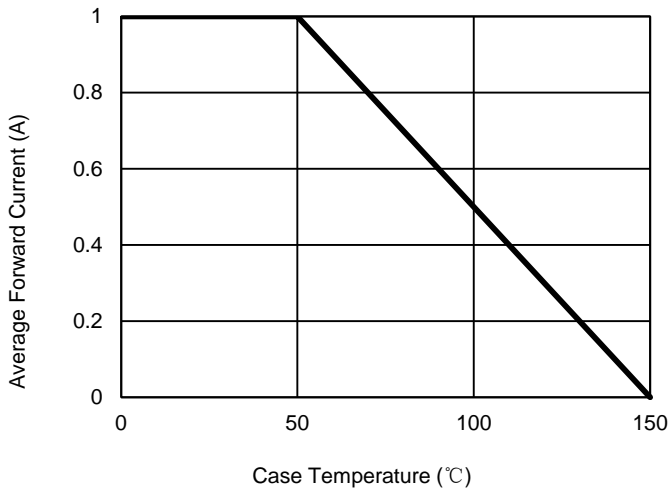


Fig. 2 - Maximum Non-Repetitive Surge Current

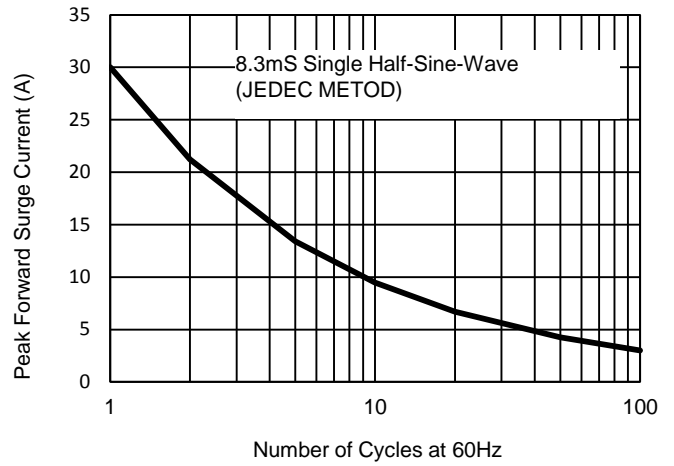


Fig. 3 - Typical Reverse Characteristics

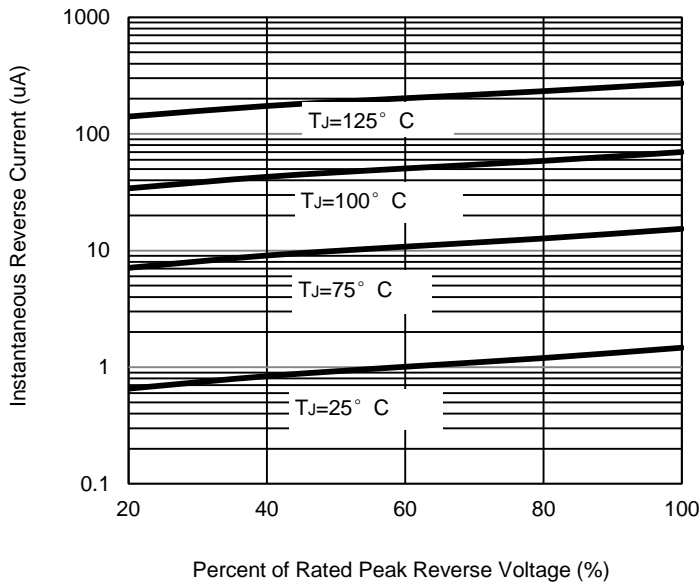
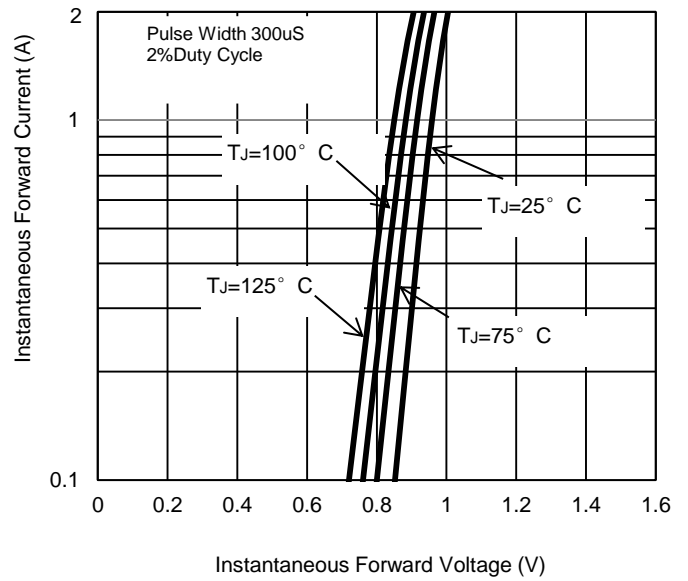


Fig. 4 - Typical Forward Characteristics



The curve graph is for reference only, can't be the basis for judgment

SBT14S-13-92-01
 Rev. 10, 1-Nov-2019

Disclaimer

ALL specifications and data are subject to be changed without notice to improve reliability function or design or other reasons.

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