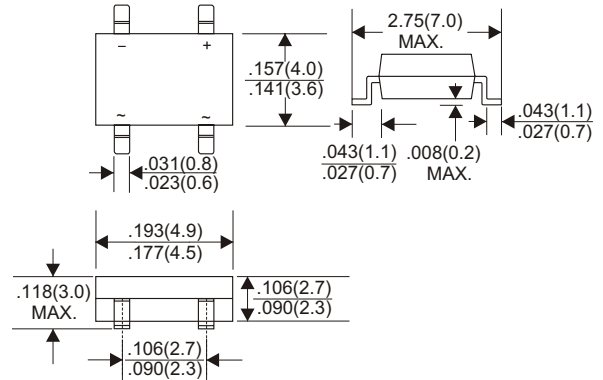


RoHS Compliant Product

A suffix of "-C" specifies halogen-free.



MDS



Dimensions in inches and (millimeters)

● FEATURES

- Rating to 1000 PRV
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- Lead tin plated copper

● MECHANICAL DATA

- Polarity: Symbol molded on body
- Mounting position: Any
- Weight: 0.125 grams

● MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25 °C ambient temperature unless otherwise specified.

Resistive or inductive load, 60Hz,

For capacitive load, derate current by 20%.

TYPE NUMBER	SYMBOL	B1S	B2S	B4S	B6S	B8S	B10S	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Output Current (Note1) @ $T_a=40^{\circ}C$	$I_{F(AV)}$	0.8						A
Peak Forward Surge Current, 8.3 ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	30						A
Maximum Forward Voltage @0.4A DC	V_F	1.0						V
Maximum DC Reverse Current at Rated DC Blocking Voltage per Element	I_R	5 (@ $T_J=25^{\circ}C$) 500 (@ $T_J=125^{\circ}C$)						μA
Typical Junction Capacitance Per Element (Note2)	C_J	15						pF
Typical Thermal Resistance (Note3)	$R_{\theta JA}$	75						$^{\circ}C/W$
Operating Temperature Range	T_J	-55 ~ +150						$^{\circ}C$
Storage Temperature Range	T_{STG}	-55 ~ +150						$^{\circ}C$

Notes:

1. Mounted on P.C. Board.
2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
3. Thermal Resistance Junction to Ambient.

● RATING AND CHARACTERISTIC CURVES (B1S THRU B10S)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

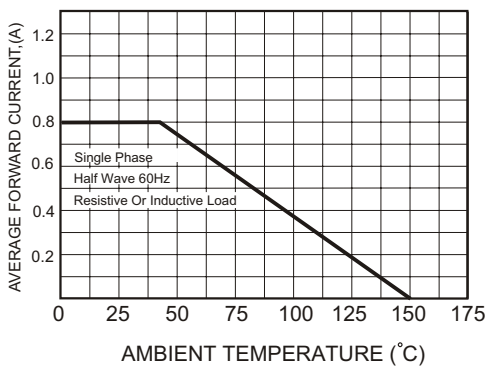


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

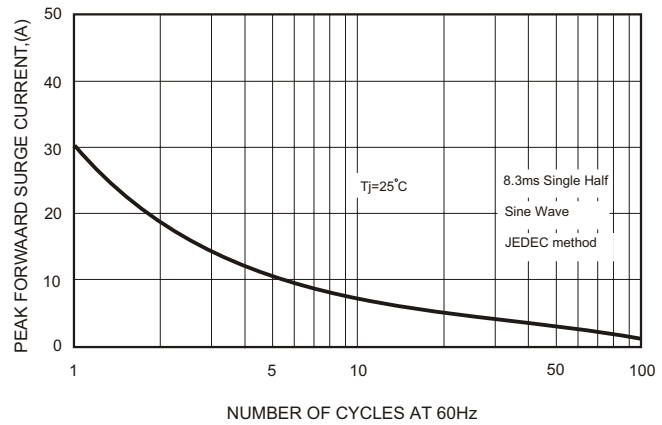


FIG.3-TYPICAL FORWARD CHARACTERISTICS

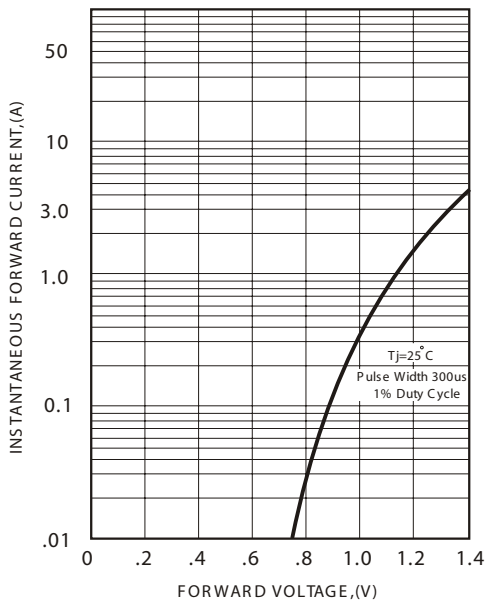


FIG.4-TYPICAL REVERSE CHARACTERISTICS

