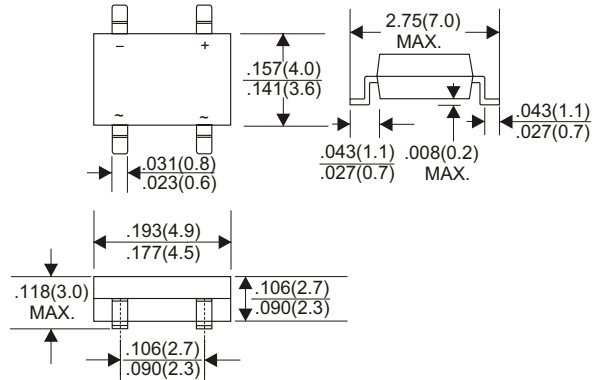


RoHS Compliant Product

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 (@ $T_J=125^{\circ}C$ )						$\mu A$
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:

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

### ● RATING AND CHARACTERISTIC CURVES (B1S THRU B10S)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

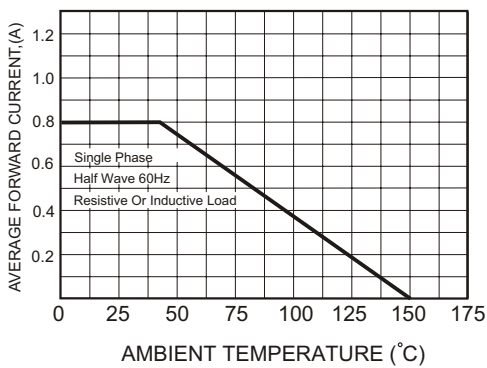


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

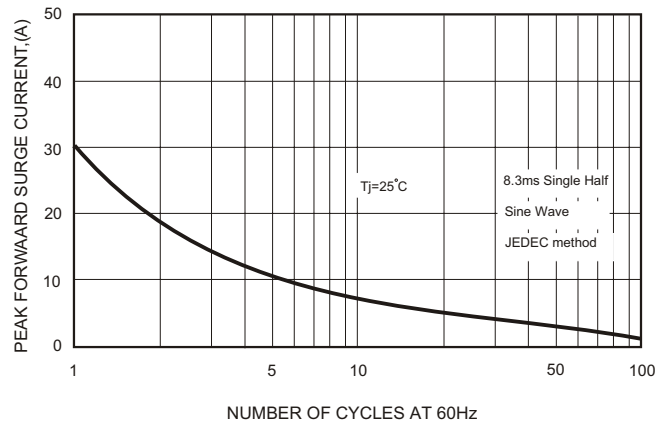


FIG.3-TYPICAL FORWARD CHARACTERISTICS

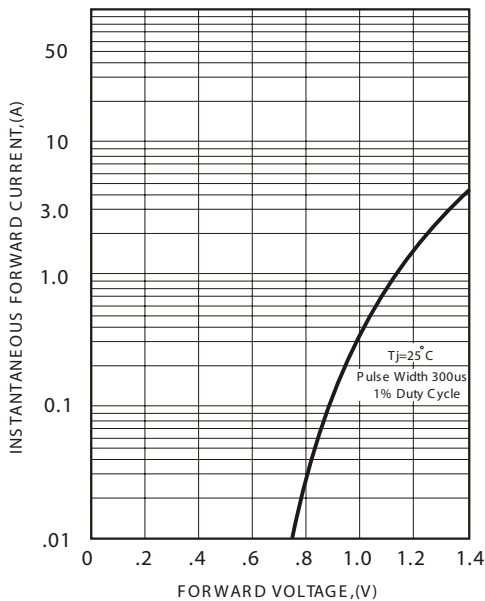


FIG.4-TYPICAL REVERSE CHARACTERISTICS

