

FEATURES

- * Ideal for printed circuit board
- * Reliable low cost construction utilizing molded plastic technique
- * High surge current capability
- * Polarity: Symbol molded on body
- * Mounting position: Any
- * Weight: 0.12 grams

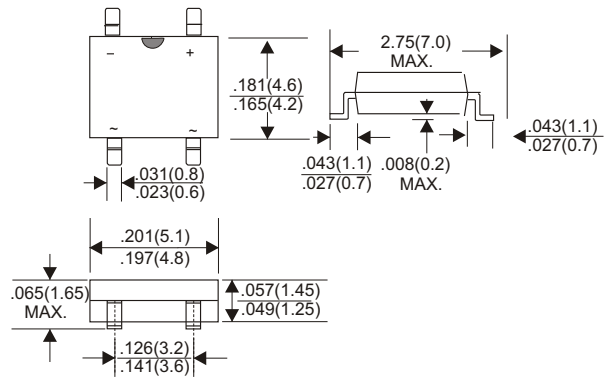
VOLTAGE RANGE

200 to 600 Volts

CURRENT

1.0 Ampere

ABS



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

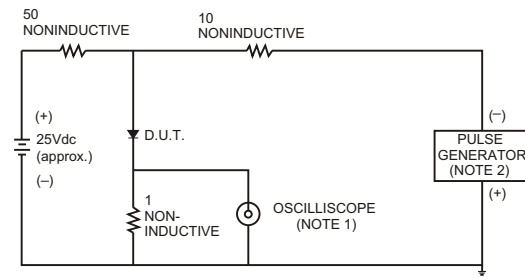
Rating 25°C ambient temperature unless otherwise specified.
Single phase half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

TYPE NUMBER	EBS2	EBS4	EBS6	UNITS
Maximum Recurrent Peak Reverse Voltage	200	400	600	V
Maximum RMS Voltage	140	280	480	V
Maximum DC Blocking Voltage	200	400	600	V
Maximum Average Forward Rectified Current at Ta=25°C	1.0			A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	30			A
Maximum Forward Voltage Drop per Bridge Element at 0.5A D.C.	1.0	1.3	1.7	V
Maximum DC Reverse Current Ta=25°C	5.0			µA
at Rated DC Blocking Voltage Ta=100°C	200			µA
Maximum Reverse Recovery Time (Note 1)	35			nS
Typical Junction Capacitance (Note 2)	15			pF
Typical Thermal Resistance R JA (Note 3)	75			°C/W
Operating and Storage Temperature Range Tj, Tstg NOTES: 1. Mounted on P.C. Board.	-65 — +150			°C

2. Thermal Resistance Junction to Ambient.

RATING AND CHARACTERISTIC CURVES (EBS2 THRU EBS6)

FIG.1- TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC



NOTES: 1. Rise Time= 7ns max., Input Impedance= 1 megohm.22pF.
2. Rise Time= 10ns max., Source Impedance= 50 ohms.

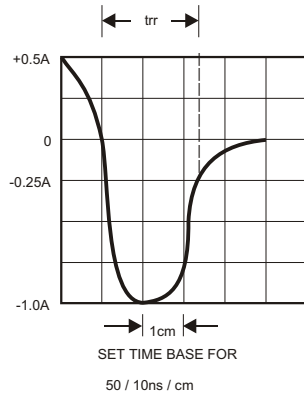


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

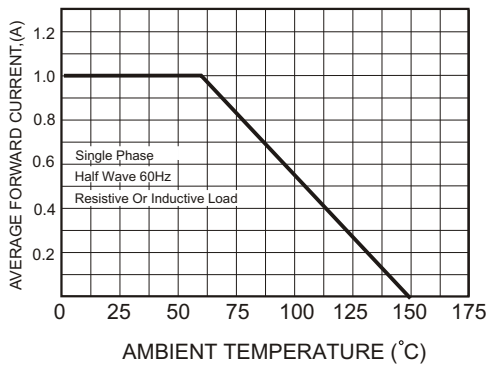


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

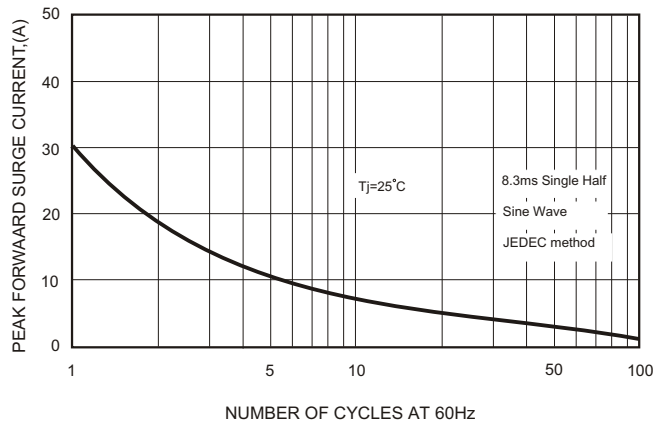


FIG.4-TYPICAL FORWARD CHARACTERISTICS

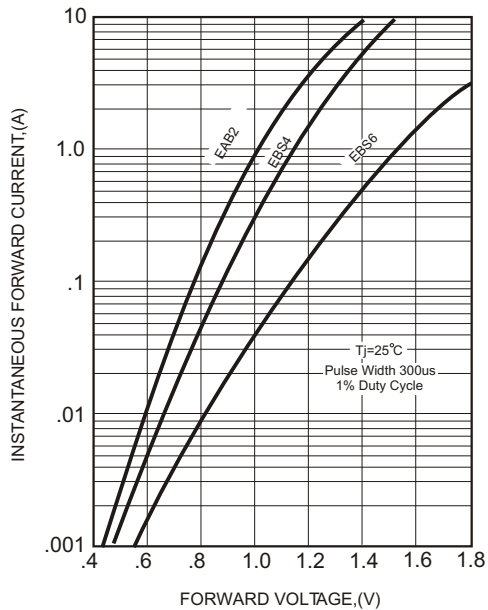


FIG.5-TYPICAL REVERSE CHARACTERISTICS

