

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Glass passivated chip junctions
- High surge overload rating: 35A peak
- Saves space on printed circuit boards
- High temperature soldering guaranteed: 260 °C/10 seconds.

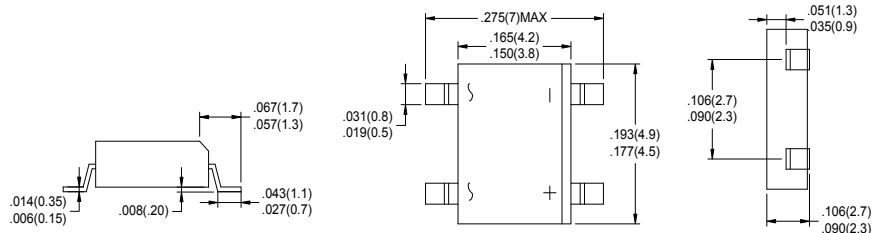
MB2S---MB10S



CASE:MB-S

Mechanical Data

- Case: Transfer Molded Epoxy
- Mounting Position: Any
- Polarity: Polarity Symbols Marked on Body



Unit: mm

Maximum Ratings and Electrical Characteristics (T =25°C unless otherwise noted)

Parameter	Symbols	MB2S	MB4S	MB6S	MB8S	MB10S	Unit
Maximum repetitive peak reverse voltage	V <sub>RRM</sub>	200	400	600	800	1000	Volts
Maximum RMS voltage	V <sub>RMS</sub>	140	280	420	560	700	Volts
Maximum DC blocking voltage	V <sub>DC</sub>	200	400	600	800	1000	Volts
Maximum average forward output rectified current (see Fig.1) on glass-epoxy P.C.B. on aluminum substrate	I <sub>F(AV)</sub>			0.5 (1) 0.8 (2)			Amp
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>			30.0			Amps
Rating for fusing (t < 8.3ms)	I <sup>2</sup> t			5.0			A <sup>2</sup> sec
Maximum instantaneous forward voltage drop per leg at 0.4A	V <sub>F</sub>			1.0			Volt
Maximum DC reverse current at T <sub>A</sub> = 25°C rated DC blocking voltage per leg T <sub>A</sub> = 125°C	I <sub>R</sub>			5.0 500			uA
Typical thermal resistance per leg	R <sub>JA</sub> R <sub>JA</sub> R <sub>JL</sub>			85 (1) 70 (2) 20 (1)			°C/W
Typical junction capacitance per leg at 4.0V, 1.0MHz	C <sub>J</sub>			13			pF
Operating junction and storage temperature range	T <sub>J</sub> , T <sub>STG</sub>			-55 to +150			°C

Notes: 1. On glass epoxy P.C.B. mounted on 0.05 x 0.05" (1.3 x 1.3mm) pads  
2. On aluminum substrate P.C.B. with an area of 0.8" x 0.8" (20 x 20mm) mounted on 0.05 x 0.05" (1.3 x 1.3mm) solder pad

**MB2S---MB10S** Typical Characteristics

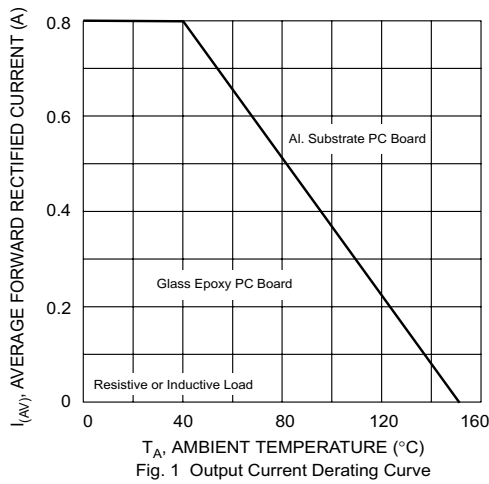


Fig. 1 Output Current Derating Curve

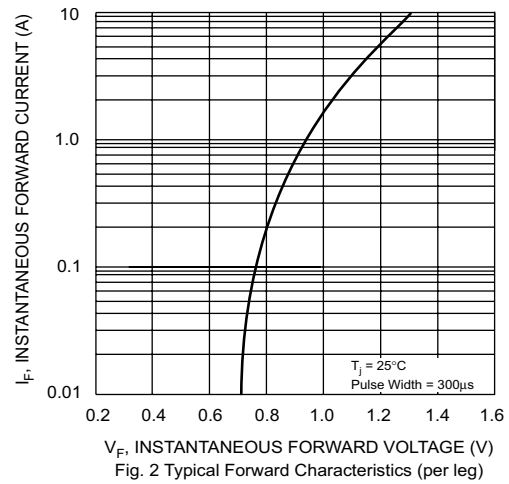


Fig. 2 Typical Forward Characteristics (per leg)

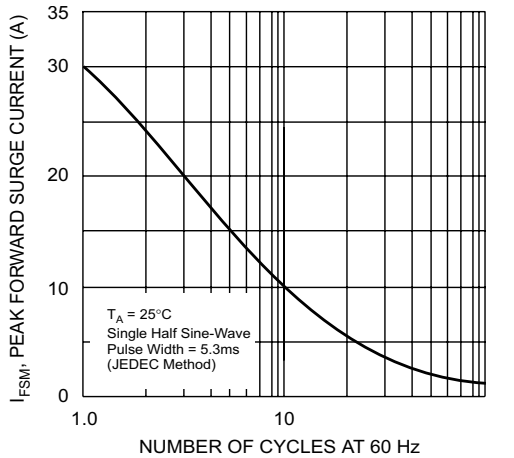


Fig. 3 Maximum Peak Forward Surge Current (per leg)

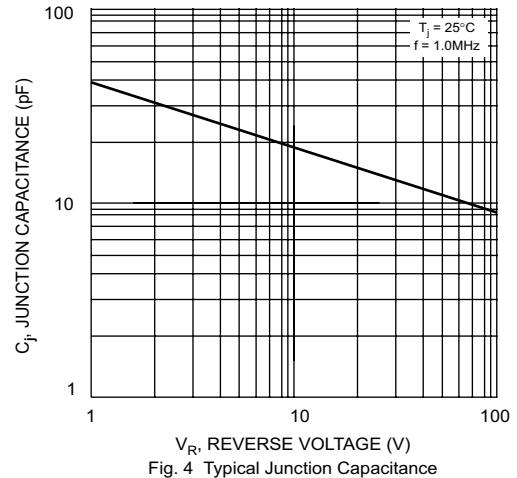


Fig. 4 Typical Junction Capacitance

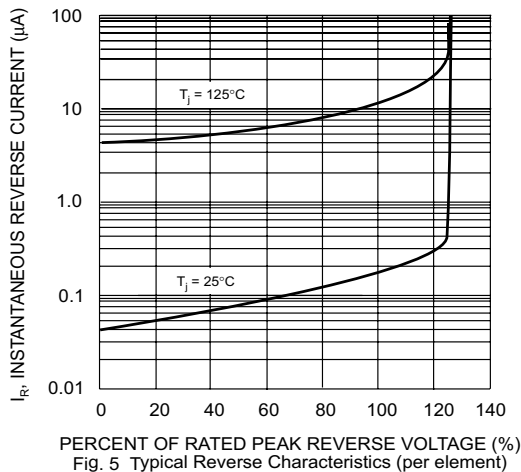


Fig. 5 Typical Reverse Characteristics (per element)