AB158-E THRU AB1510-E

SINGLE PHASE GLASS PASSIVATED SURFACE MOUNT FLAT BRIDGE RECTIFIER

VOLTAGE: 800 to 1000V **CURRENT: 1.5A**

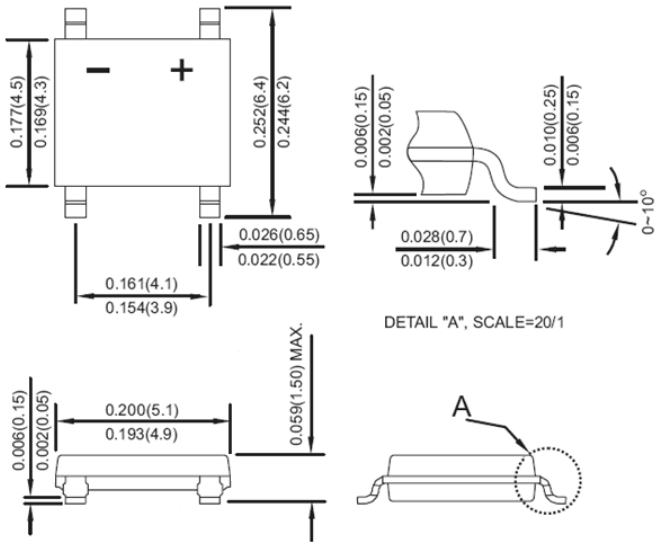
FEATURE

Ideal for printed circuit board
Glass passivated chip
Reliable low cost construction utilizing molded plastic technique
High surge current capability
Small size, simple installation
High temperature soldering guaranteed: 260℃/10 seconds
Halogen Free

MECHANICAL DATA

Terminal: Plated leads solderable per J-STD-002
Case:UL-94 Class V-0 recognized Halogen Free Epoxy
Polarity: Polarity symbol marked on body

LBF



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half -wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated)

	Symbol	AB158-E	AB1510-E	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	800	1000	V
Maximum RMS Voltage	Vrms	560	700	V
Maximum DC blocking Voltage	VDC	800	1000	V
Maximum average forward rectified output current	If(av)	1.5		A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	Ifsm	40		A
Rating for fusing(t＜8.3ms)	I^2t	6.9		A^2sec
Maximum Instantaneous Forward Voltage at forward current 0.75A	Vf	1.0		V
Maximum DC Reverse Current Ta =25℃ at rated DC blocking voltage Ta =125℃	Ir	5.0 100.0		μA
Typical Thermal resistance Junction to case	Rth(jc)	15		℃/W
Storage and Operating Junction Temperature Range	Tstg, Tj	-55 to +150		℃

Note:

Fig. 1 - Derating Curve Output Rectified Current

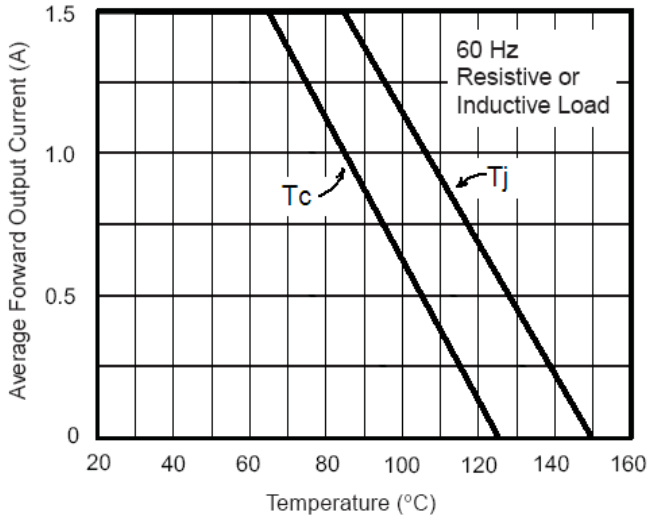


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current Per Leg

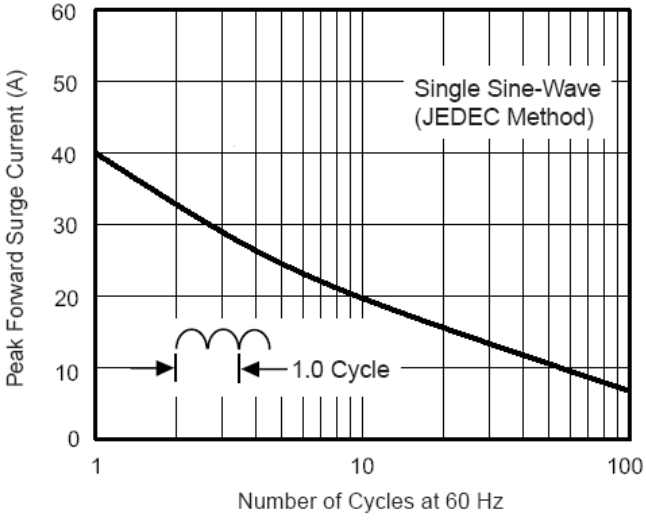


Fig. 3 - Typical Forward Characteristics Per Leg

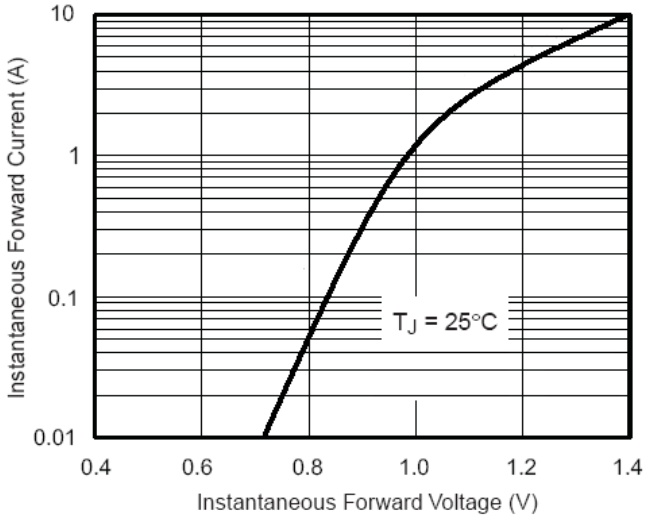


Fig. 4 - Typical Reverse Leakage Characteristics Per Leg

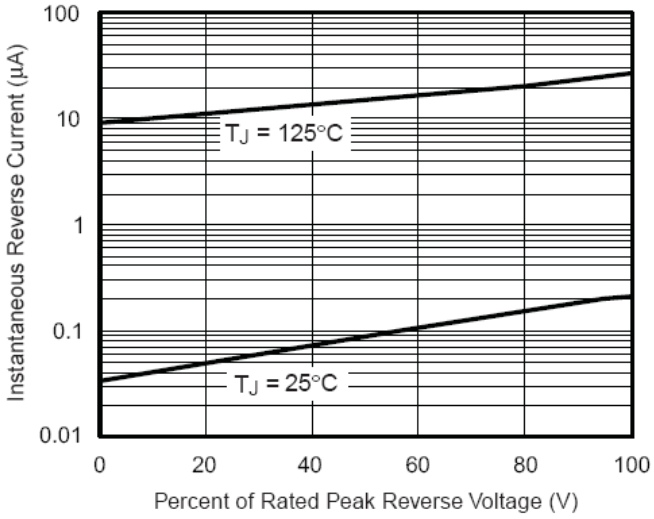


Fig. 5 - Typical Junction Capacitance Per Leg