

AB1010

**SINGLE PHASE GLASS PASSIVATED
SURFACE MOUNT FLAT BRIDGE RECTIFIER
VOLTAGE: 1000V CURRENT: 1.0A**

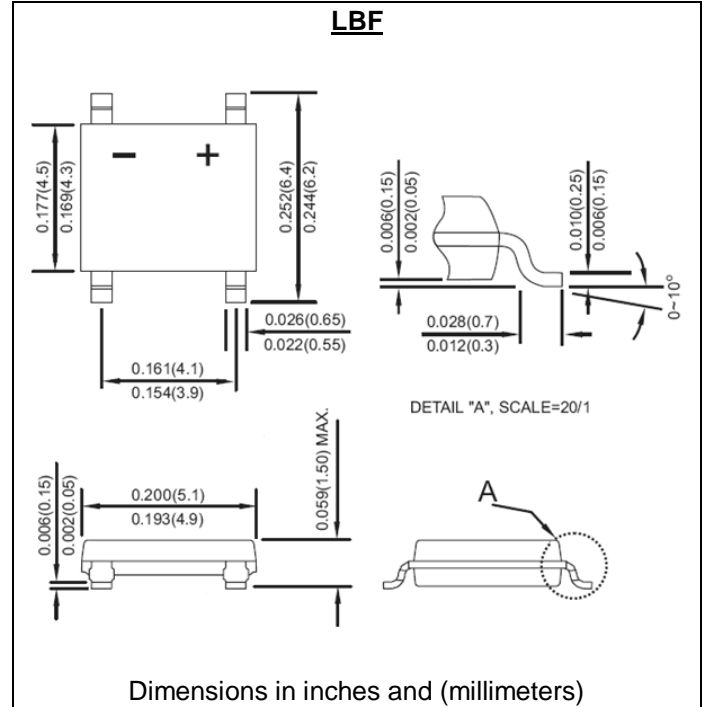


FEATURE

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°C/10 seconds

MECHANICAL DATA

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



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

	Symbol	AB1010	Units
Maximum Recurrent Peak Reverse Voltage	V _{rrm}	1000	V
Maximum RMS Voltage	V _{rms}	700	V
Maximum DC blocking Voltage	V _{DC}	1000	V
Maximum Average Forward Rectified Current on aluminum substrate on glass-epoxy P.C.B.	I _{f(av)}	1.0 0.8	A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I _{fsm}	30.0	A
Rating for fusing(t<8.3ms)	I ² t	3.9	A ² sec
Maximum Instantaneous Forward Voltage at forward current 0.4A	V _f	0.95	V
Maximum DC Reverse Current at rated DC blocking voltage	I _r	5.0 100.0	μA
Typical Thermal resistance	R _{th(jl)} R _{th(jc)} R _{th(ja)}	25 20 62.5 80	°C/W
Storage and Operating Junction Temperature Range	T _{stg} , T _j	-55 to +150	°C

Note:

RATINGS AND CHARACTERISTIC CURVES AB1010

FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

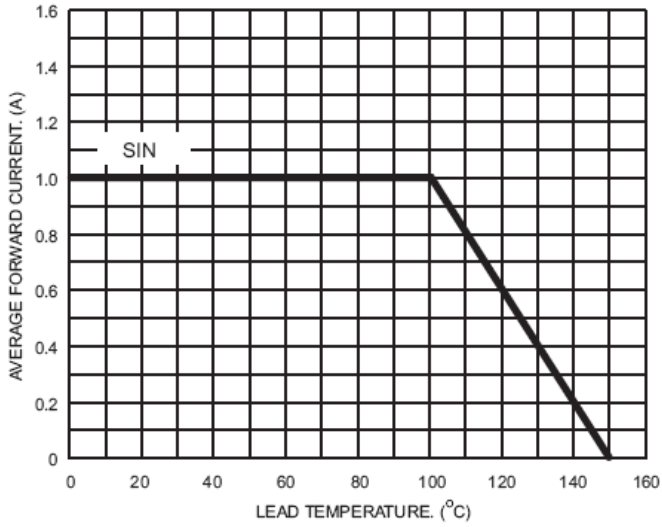


FIG.2- TYPICAL FORWARD CHARACTERISTICS

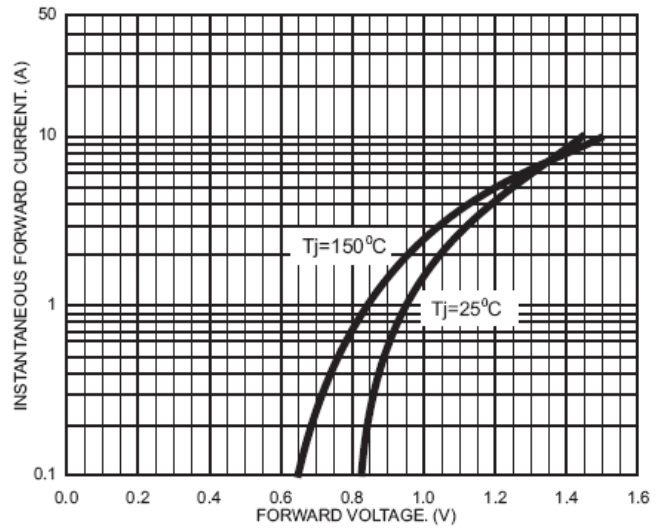


FIG.3- MAXIMUM FORWARD CURRENT DERATING CURVE

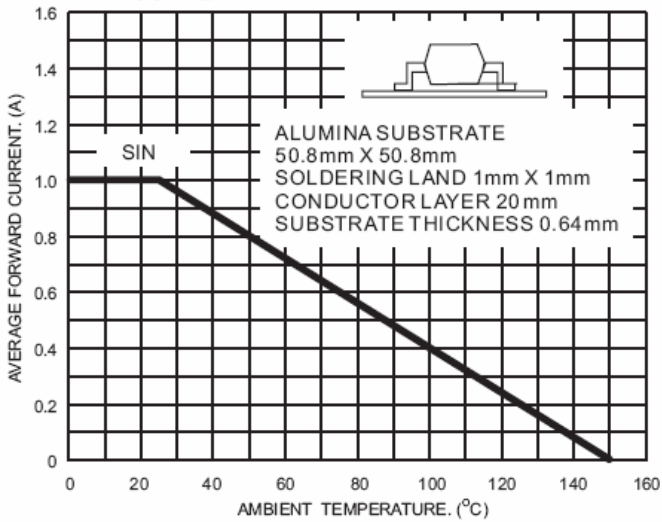


FIG.4- FORWARD POWER DISSIPATION

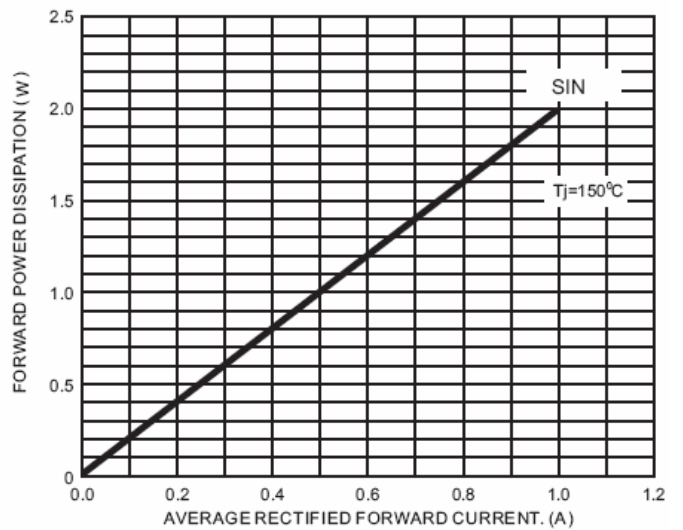


FIG.5- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

