ABS10

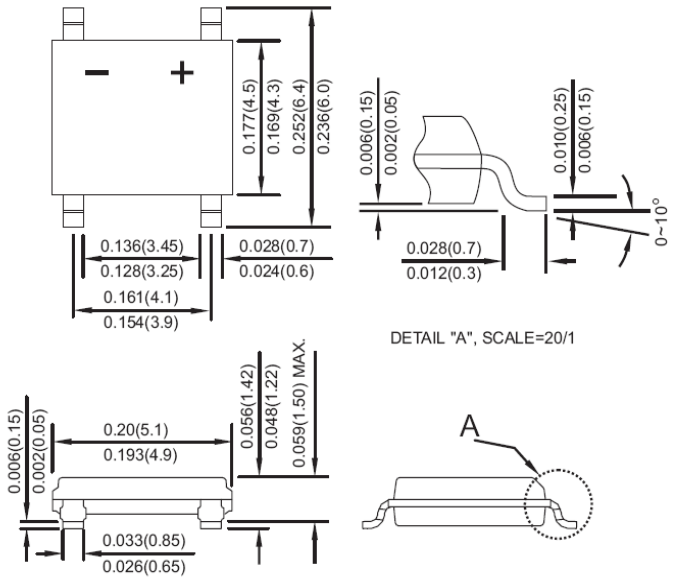
GLASS PASSIVATED
BRIDGE RECTIFIERS

REVERSE VOLTAGE **1000** Volts
FORWARD CURRENT **-0.8** Amperes

Features

- ✧ Glass passivated junction
- ✧ Ideal for printed circuit board
- ✧ Reliable low cost construction utilizing molded plastic technique
- ✧ High temperature soldering guaranteed: 260°C / 10 seconds / 0.375" (9.5mm) lead length at 5 lbs., (2.3 kg) tension
- ✧ Small size, simple installation
  Pure tin plated terminal , Lead free. Leads solderable per MIL-STD-202, Method 208
- ✧ High surge current capability

ABS



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25℃ ambient temperature unless otherwise specified.

Single phase, half wave ,60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

CHARACTERISTICS	SYMBOL	ABS10	UNIT
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 glass-epoxy P.C.B (NOTE1)	I(AV)	0.8	A
on aluminum substrate		1	
Peak Forward Surage Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load(JEDEC Method)	I_{FSM}	30	A
Peak Forward Voltage at 0.4A DC	V_F	1.1	V
Maximum DC Reverse Current @TJ=25℃	I_R	5	uA
at Rated DC Bolcking Voltage @TJ=125℃		500	
Tyical Junction Capacitance Per Element (Note2)	C_J	15	pF
Tyical Thermal Resistance (Note3)	$R_{\theta JC}$	75	℃/W
Operating Temperature Range	T_J	-55to+150	℃
Storage Temperature Range	T_{STG}	-55to+150	℃

NOTES:1.Mounted on P.C. board.

2.Measured at1.0MHz and applied reverse voltage of 4.0V DC.

3.Thermal resistance junction to ambient.

RATING AND CHARACTERTIC CURVES
ABS10

FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

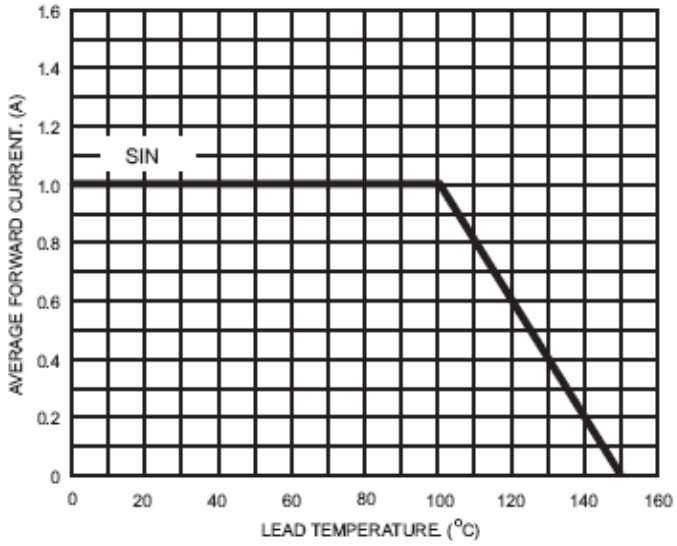


FIG.2- TYPICAL FORWARD CHARACTERISTICS

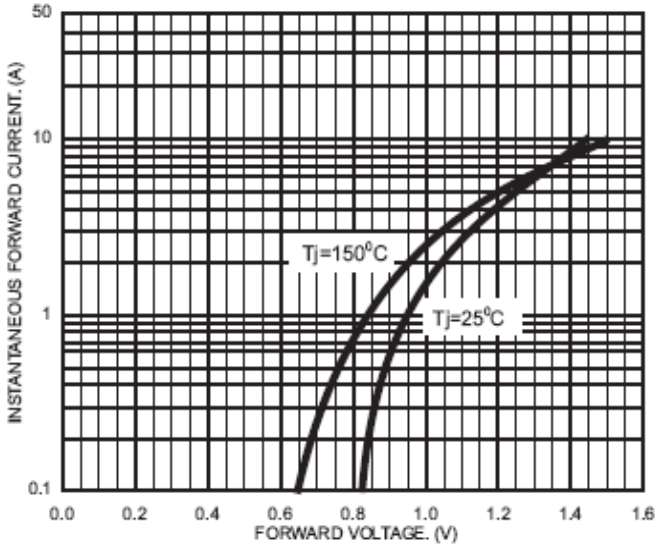


FIG.3- MAXIMUM FORWARD CURRENT DERATING CURVE

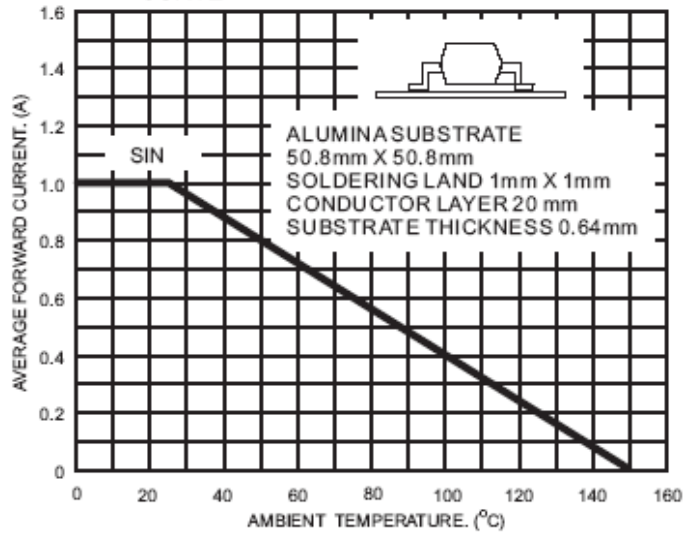


FIG.4- FORWARD POWER DISSIPATION

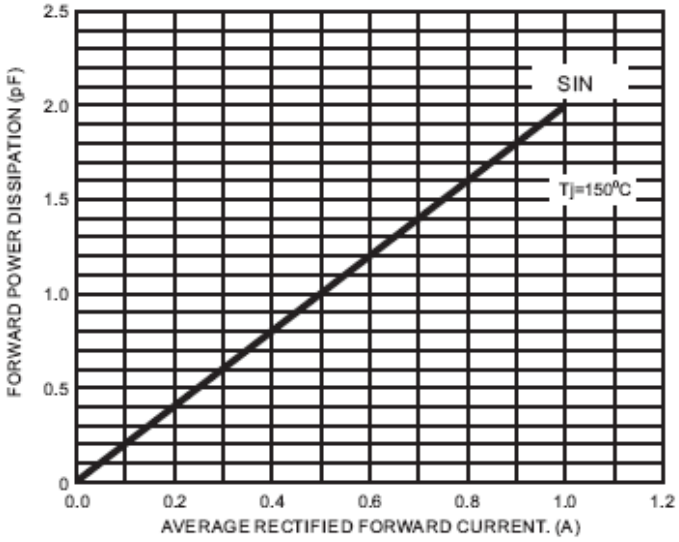


FIG.5- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT