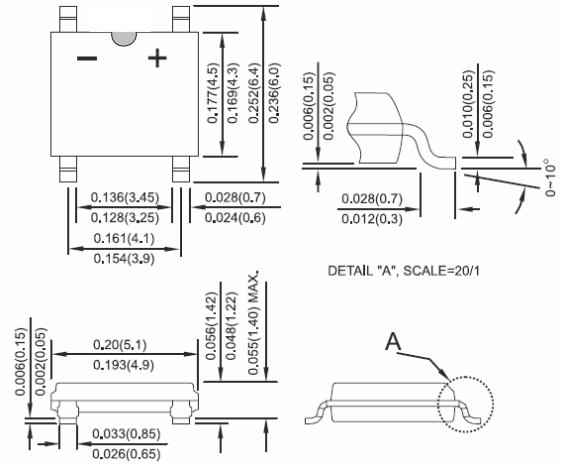


**Single Phase 1.0 AMP. Glass Passivated Bridge Rectifiers**

**ABS**

**Features**

- Glass passivated junction
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique.
- High surge current capability
- 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
- Green compound with suffix "G" on packing code & Marking.



**Mechanical Data**

- Case : Molded plastic body
- Terminal : Pure tin plated , Lead free. Leads solderable per MIL-STD-202 Method 208
- Mounting position : as Marking

**Dimensions in inches and (millimeters)**

**Maximum Ratings and Electrical Characteristics**

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

Type Number	Symbol	ABS2	ABS4	ABS6	ABS8	ABS10	Units
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	200	400	600	800	1000	V
Maximum RMS Voltage	$V_{RMS}$	140	280	420	560	700	V
Maximum DC Blocking Voltage	$V_{DC}$	200	400	600	800	1000	V
Maximum Average Forward Rectified Current On glass-epoxy On aluminum substrate	$I_{(AV)}$	0.8 1.0					A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method )	$I_{FSM}$	30					A
Maximum Instantaneous Forward Voltage @ 0.4A	$V_F$	0.95					V
Rating for fusing ( t<8.3mS )	$I^2T$	3.74					A <sup>2</sup> sec
Maximum DC Reverse Current @ TA=25°C at Rated DC Blocking Voltage @ TA=125°C	$I_R$	10 150					uA
Typical Thermal Resistance (Note)	$R\theta_{JL}$ $R\theta_{JA}$	25 80					°C/W
Operating Temperature Range	$T_J$	-55 to +150					°C
Storage Temperature Range	$T_{STG}$	-55 to +150					°C

Note: Thermal resistance from Junction to Ambient and from Junction to Lead Mounted on P.C.B. with 0.2" x 0.2" (5mm x 5mm) Copper Pads.

RATINGS AND CHARACTERISTIC CURVES (ABS2 THRU ABS10)

FIG.1 MAXIMUM FORWARD CURRENT DERATING CURVE

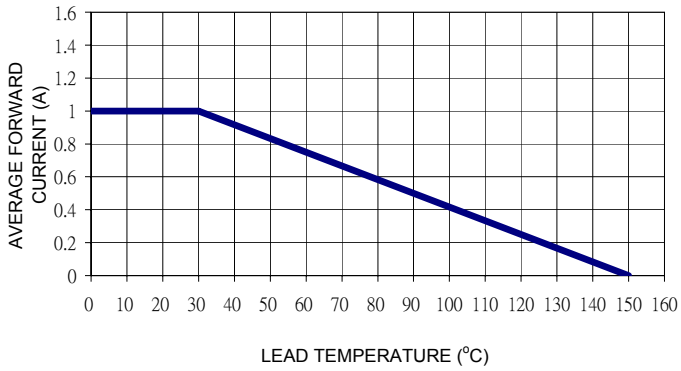


FIG. 2 TYPICAL REVERSE CHARACTERISTICS

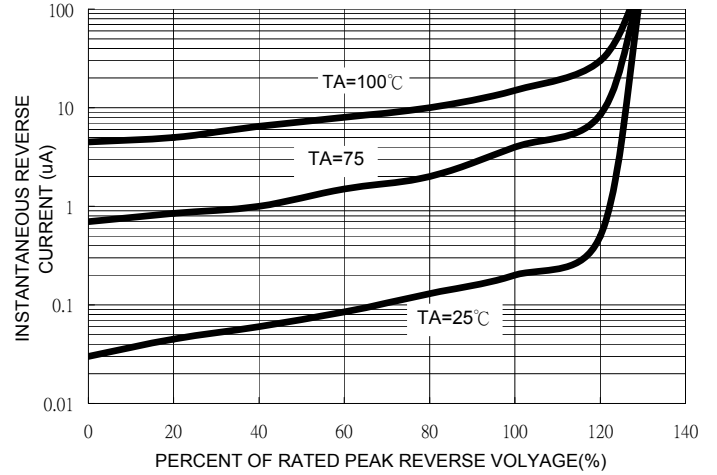


FIG. 3 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

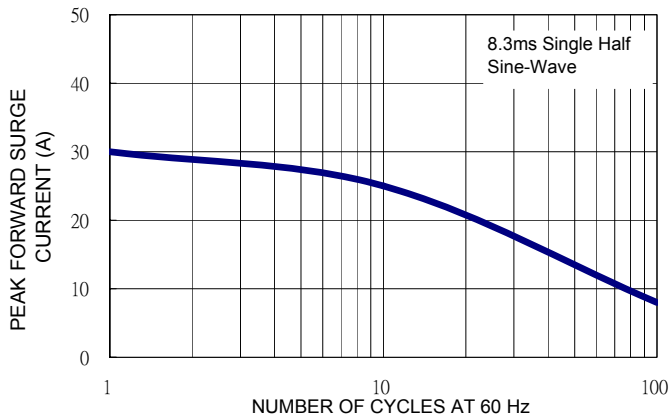


FIG. 4 TYPICAL JUNCTION CAPACITANCE

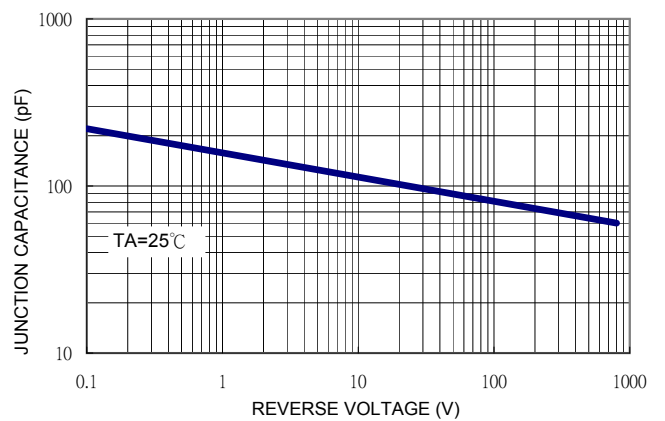


FIG. 5 TYPICAL FORWARD CHARACTERISTICS

