



**RoHS**  
COMPLIANCE

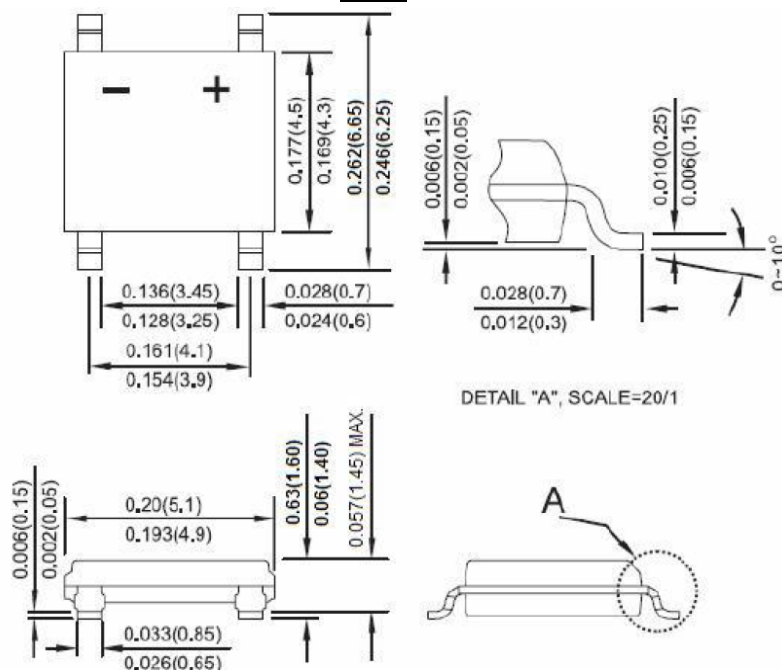


## Features

- ✧ UL Recognized File # E-326854
- ✧ 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., (2.3kg) tension
- ✧ Small size, simple installation
- ✧ Green compound with suffix "G" on packing  
code & prefix "G" on datecode

## ABS2 - ABS10 Single Phase 1.0AMP Glass Passivated Bridge Rectifiers

### ABS

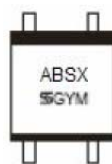


## Mechanical Data

- ✧ Case: Molded plastic body
- ✧ Terminal: Pure tin plated, lead free, Leads solderable  
per MIL-STD-202 Method 208
- ✧ Mounting position : as Marking
- ✧ Weight: 0.12 grams

### Dimensions in inches and (millimeters)

#### Marking Diagram



- ABSX = Specific Device Code
- G = Green Compound
- Y = Year
- M = Work Month

## 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	Unit
Maximum Repetitive 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	$I_{F(AV)}$	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 (Note 1) @ 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 at Rated DC Blocking Voltage $T_A = 25\text{ }^{\circ}\text{C}$ $T_A = 125\text{ }^{\circ}\text{C}$	$I_R$	10 150					uA
Typical Thermal Resistance (Note 2)	$R_{\theta JL}$ $R_{\theta JA}$	25 80					°C/W
Operating Temperature Range	$T_J$	- 55 to + 150					°C
Storage Temperature Range	$T_{STG}$	- 55 to + 150					°C

Note 1: Pulse Test with PW=300 usec, 1% Duty Cycle

Note 2: Mounted on P.C.B. with 5mm x 5mm Copper Pads

## RATINGS AND CHARACTERISTIC CURVES (ABS2 THRU ABS10)

FIG.1 MAXIMUM FORWARD CURRENT DERATING CURVE

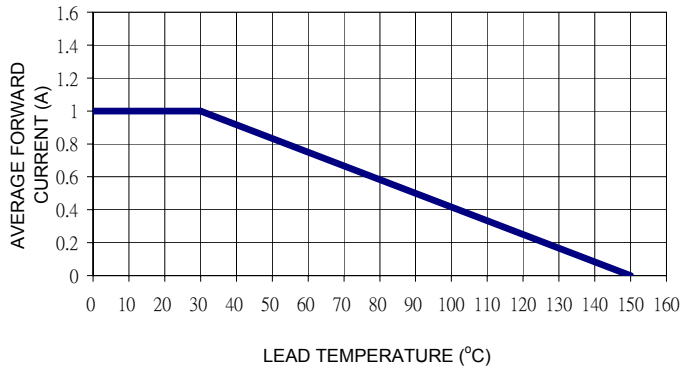


FIG. 2 TYPICAL REVERSE CHARACTERISTICS

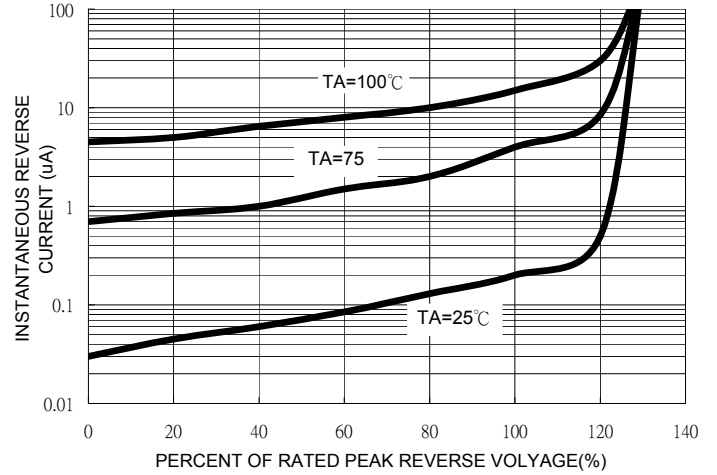


FIG. 3 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

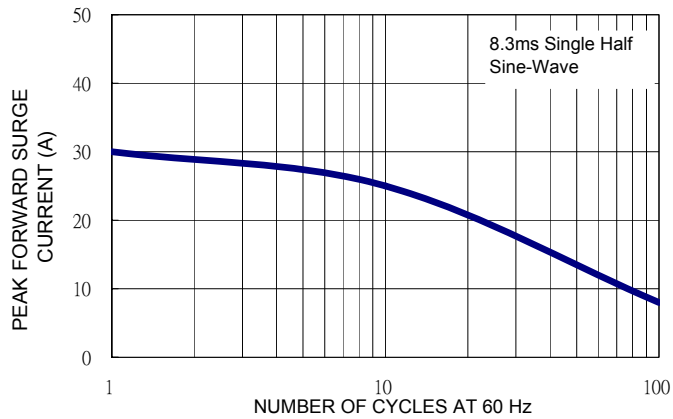


FIG. 4 TYPICAL JUNCTION CAPACITANCE

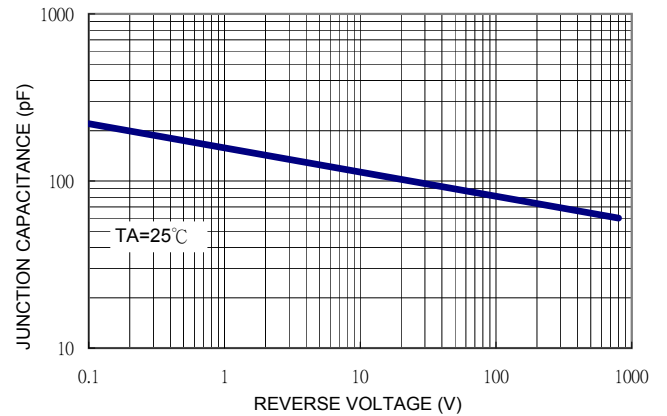


FIG. 5 TYPICAL FORWARD CHARACTERISTICS

