



# ABS2 THRU ABS10

## Single Phase 1.0 AMPS. Glass Passivated Bridge Rectifiers

Voltage Range  
200 to 1000 Volts  
Current  
1.0 Amperes

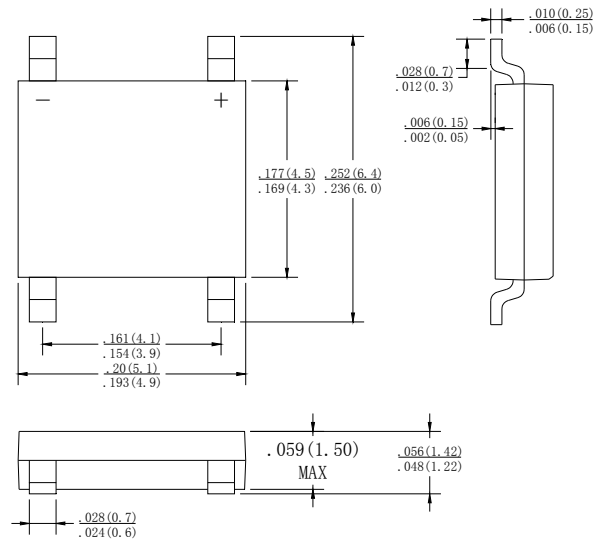
### Features

- Ideal for printed circuit board
- Reliable low cost construction technique results in inexpensive product
- High temperature soldering guaranteed:  
260°C / 10 seconds / 0.375" ( 9.5mm )  
lead length at 5 lbs., ( 2.3 kg ) tension

### Mechanical Data

- Case: Molded plastic
- Lead: solder plated
- Polarity: As marked

ABS



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   |  | ABS2        | ABS4 | ABS6 | ABS8 | ABS10 | UNITS |
|---|--|-------------|------|------|------|-------|-------|
| Maximum Repetitive Peak Reverse Voltage   | V <sub>RRM</sub>                       | 200         | 400  | 600  | 800  | 1000  | V     |
| Maximum RMS Voltage   | V <sub>RMS</sub>                       | 140         | 280  | 420  | 560  | 700   | V     |
| Maximum DC blocking Voltage   | V <sub>DC</sub>                        | 200         | 400  | 600  | 800  | 1000  | V     |
| Maximum Average Forward Rectified Current<br>On glass-epoxy P.C.B.<br>On aluminum substrate                   | I <sub>(AV)</sub>                      | 0.8<br>1.0  |      |      |      |       | A     |
| Peak Forward Surge Current, 8.3 ms Single<br>Half Sine-wave Superimposed on Rated<br>Load (JEDEC method )     | I <sub>FSM</sub>                       | 30          |      |      |      |       | A     |
| Maximum Instantaneous Forward Voltage @ 0.4A  | V <sub>F</sub>                         | 0.95        |      |      |      |       | V     |
| Maximum DC Reverse Current @ T <sub>A</sub> =25°C<br>rated DC blocking voltage per leg T <sub>A</sub> = 125°C | I <sub>R</sub>                         | 10<br>150   |      |      |      |       | μ A   |
| Typical Thermal Resistance (Note1)<br>(Note2)   | R θ <sub>JA</sub><br>R θ <sub>JL</sub> | 62.5<br>25  |      |      |      |       | °C/W  |
| Operating Temperature Range   | T <sub>J</sub>                         | -55 to +150 |      |      |      |       | °C    |
| Storage Temperature Range   | T <sub>STG</sub>                       | -55 to +150 |      |      |      |       | °C    |

**NOTES:** 1.On aluminum substrate P.C.B. with an area of 0.8×0.8"(20×20mm) mounted on 0.05×0.05"(1.3×1.3mm) solder pad.

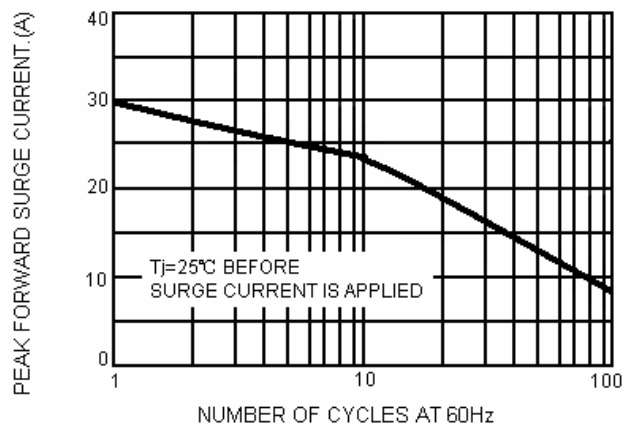
2.On glass epoxy P.C.B. mounted on 0.05×0.05"(1.3×1.3mm) pads.

# RATING AND CHARACTERISTIC CURVES

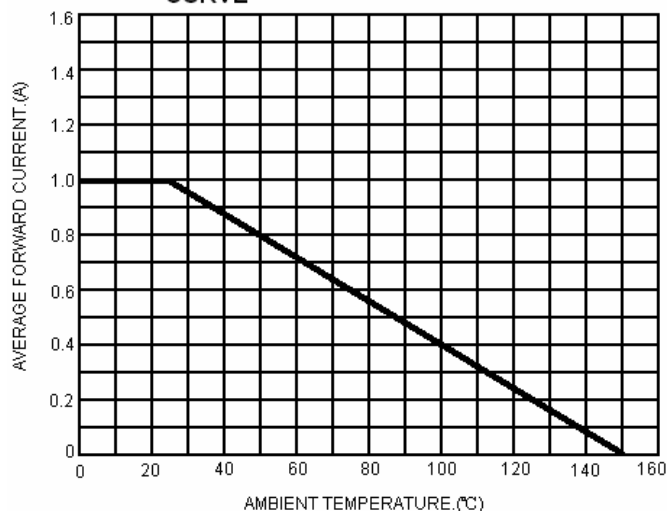
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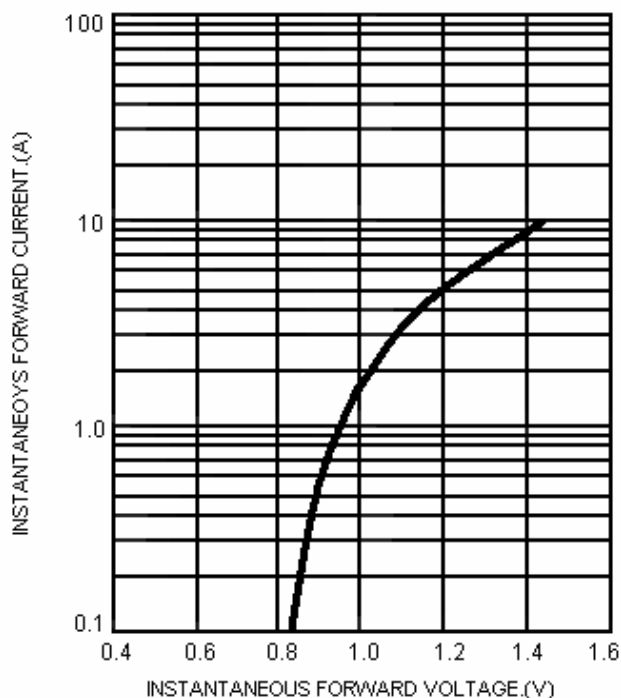
**FIG.1-MAXIMUM NONO-REPETITIVE FORWARD SURGE CURRENT PER BRIDGE ELEMMENT**



**FIG.2-MAXIMUM FORWARD CURRENT DERATING CURVE**



**FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT**



**FIG.4-TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT**

