



## FEATURES

- \* Ideal for printed circuit board
- \* Reliable low cost construction utilizing molded plastic technique
- \* High surge current capability
- \* Polarity: Symbol molded on body
- \* Mounting position: Any

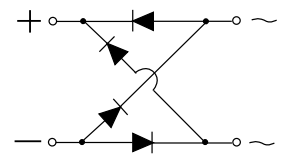


ABS

## Package Marking and Ordering Information

| Product ID | Pack | Marking | Qty(PCS) |
|------------|------|---------|----------|
| ABS2-ABS10 | ABS  | ABS*    | 5000     |

\*:From 2-10



Internal Structure

## MAXIMUM RATINGS (Ta=25 unless otherwise noted)

| 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<br>On glass-epoxy P.C.B.<br>On aluminum substrate               | $I_{(AV)}$                         | 1.0              |      |      |      |       | A                  |
| Peak Forward Surge Current, 8.3 ms Single<br>Half Sine-wave Superimposed on Rated<br>Load (JEDEC method ) | $I_{FSM}$                          | 30               |      |      |      |       | A                  |
| Maximum Instantaneous Forward Voltage<br>@ 0.4A                                                           | $V_F$                              | 1.0              |      |      |      |       | V                  |
| Maximum DC Reverse Current @ $T_A=25^{\circ}C$<br>at Rated DC Blocking Voltage @ $T_A=125^{\circ}C$       | $I_R$                              | 10<br>150        |      |      |      |       | $\mu A$<br>$\mu A$ |
| Typical Thermal resistance Junction to Lead<br>On aluminum substrate<br>On Glass-Epoxy substrate          | $R_{\theta JL}$<br>$R_{\theta JA}$ | 25<br>62.5<br>80 |      |      |      |       | $^{\circ}C/W$      |
| Operating Temperature Range                                                                               | $T_J$                              | -55 to +150      |      |      |      |       | $^{\circ}C$        |
| Storage Temperature Range                                                                                 | $T_{STG}$                          | -55 to +150      |      |      |      |       | $^{\circ}C$        |



## Typical Characteristics

FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

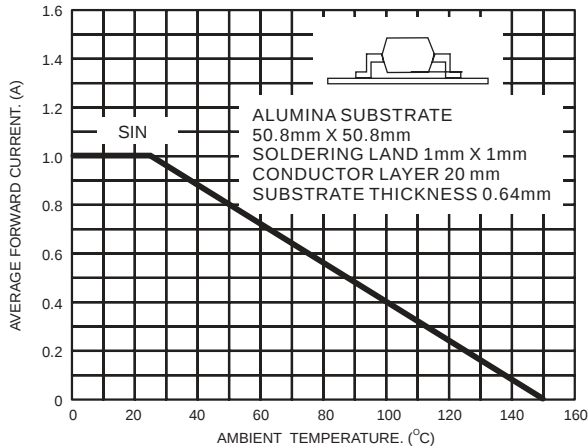


FIG.2- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

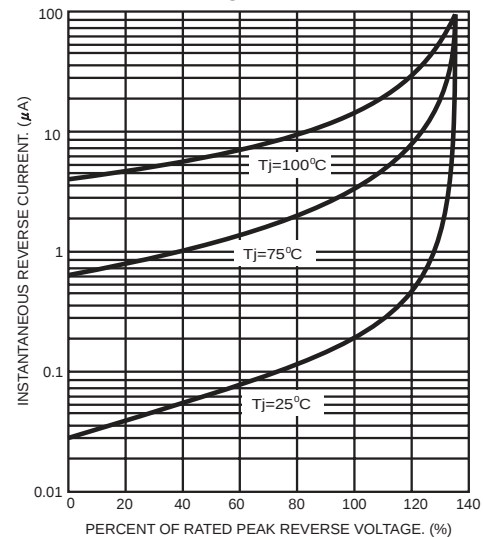


FIG.3- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

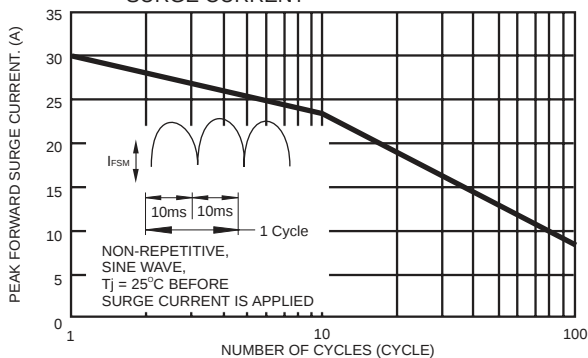


FIG.4- TYPICAL JUNCTION CAPACITANCE

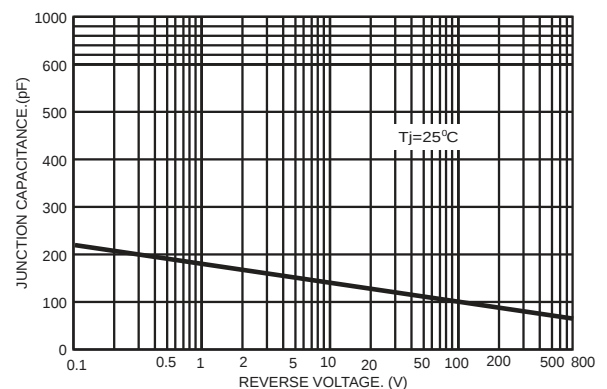
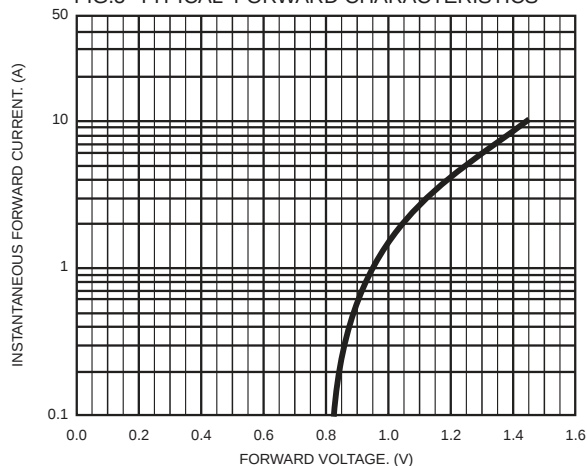
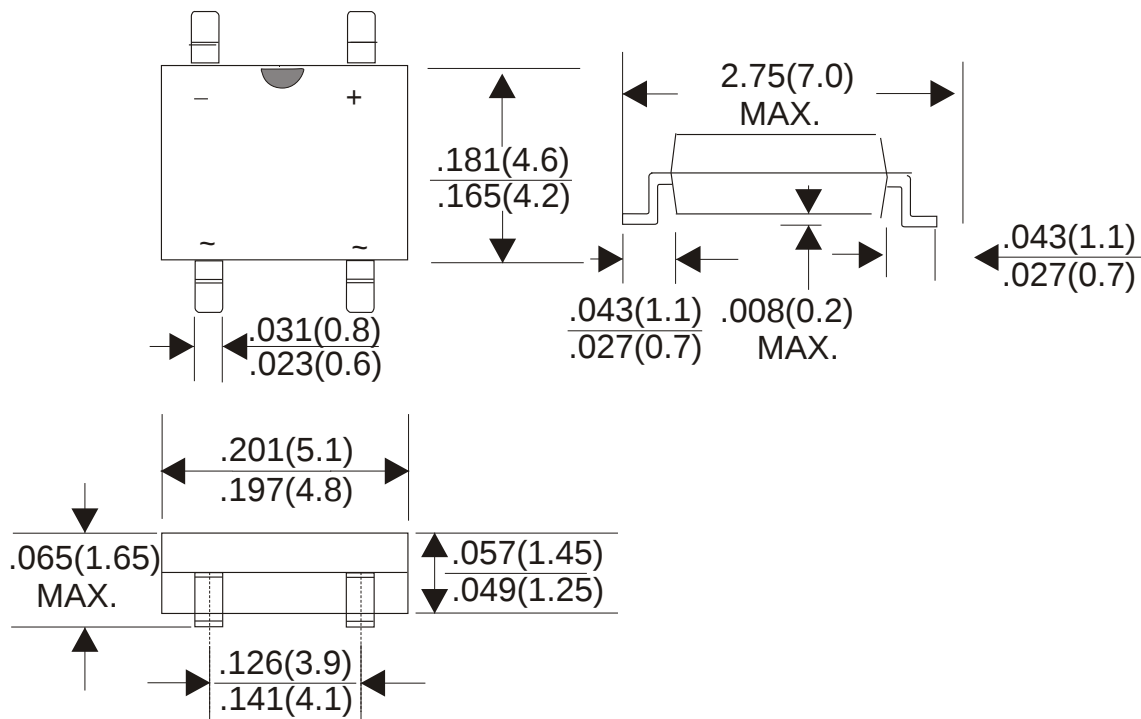


FIG.5- TYPICAL FORWARD CHARACTERISTICS





## ABS Package Outline Dimensions



Dimensions in inches and (millimeters)



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