

## 0.8A SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER

### FEATURES:

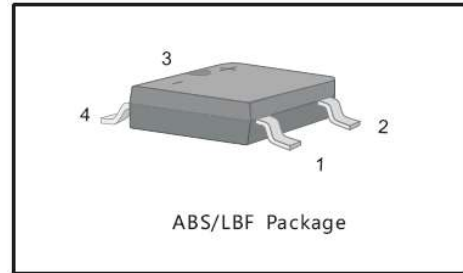
- Glass Passivated Chip Junction
- Reverse Voltage - 100 to 1000 V
- Forward Current - 0.8 A
- High Surge Current Capability
- Designed for Surface Mount Application

### MECHANICAL DATA

- Case: ABS/LBF
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 88mg 0.0029oz

### PINNING

| PIN | DESCRIPTION          |
|-----|----------------------|
| 1   | Input Pin ( ~ )      |
| 2   | Input Pin ( ~ )      |
| 3   | Output Anode ( + )   |
| 4   | Output Cathode ( - ) |



### Maximum Ratings and Electrical characteristics

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

| Parameter                                                                                                                                     | Symbols                            | ABS1              | ABS2 | ABS4 | ABS6 | ABS8 | ABS10 | Units                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|-------------------|------|------|------|------|-------|---------------------------|
| Maximum Repetitive Peak Reverse Voltage                                                                                                       | $V_{RRM}$                          | 100               | 200  | 400  | 600  | 800  | 1000  | V                         |
| Maximum RMS voltage                                                                                                                           | $V_{RMS}$                          | 70                | 140  | 280  | 420  | 560  | 700   | V                         |
| Maximum DC Blocking Voltage                                                                                                                   | $V_{DC}$                           | 100               | 200  | 400  | 600  | 800  | 1000  | V                         |
| Average Rectified Output Current at $T_a = 40^\circ\text{C}$                                                                                  | $I_o$                              | 0.8               |      |      |      |      |       | A                         |
| Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)                                             | $I_{FSM}$                          | 30                |      |      |      |      |       | A                         |
| Forward Voltage per element<br>@ $I_F=0.4\text{A}$<br>@ $I_F=0.8\text{A}$                                                                     | $V_F$                              | 1.0<br>1.1        |      |      |      |      |       | V                         |
| Maximum DC Reverse Current at Rated DC Blocking Voltage<br>@ $T_A=25^\circ\text{C}$<br>@ $T_A=100^\circ\text{C}$<br>@ $T_A=125^\circ\text{C}$ | $I_R$                              | 5.0<br>100<br>500 |      |      |      |      |       | $\mu\text{A}$             |
| Typical Junction Capacitance ( Note1 )                                                                                                        | $C_j$                              | 13                |      |      |      |      |       | pF                        |
| Typical Thermal Resistance ( Note2 )                                                                                                          | $R_{\theta JA}$<br>$R_{\theta JL}$ | 80<br>16          |      |      |      |      |       | $^\circ\text{C}/\text{W}$ |
| Operating and Storage Temperature Range                                                                                                       | $T_j, T_{stg}$                     | -55 ~ +150        |      |      |      |      |       | $^\circ\text{C}$          |

Note: 1. Measured at 1MHz and applied reverse voltage of 4 V D.C.

2. Mounted on glass epoxy PC board with 1.3mm<sup>2</sup> copper pad.

Fig.1 Average Rectified Output Current Derating Curve

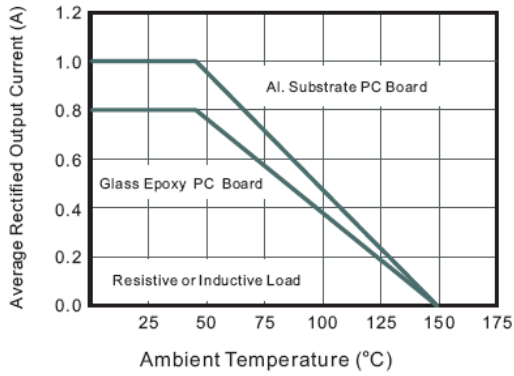


Fig.2 Typical Reverse Characteristics

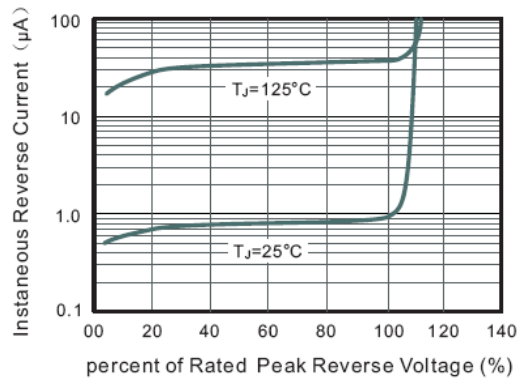


Fig.3 Typical Instantaneous Forward Characteristics

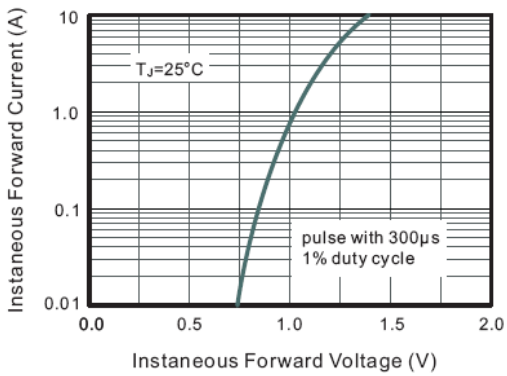


Fig.4 Typical Junction Capacitance

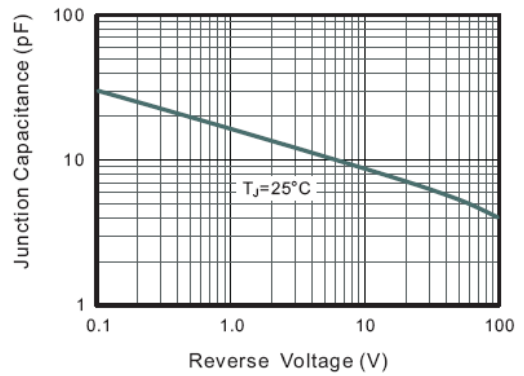
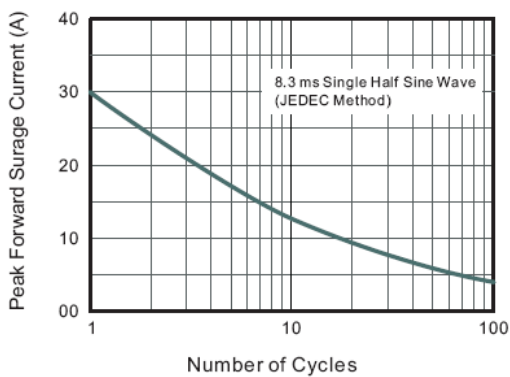


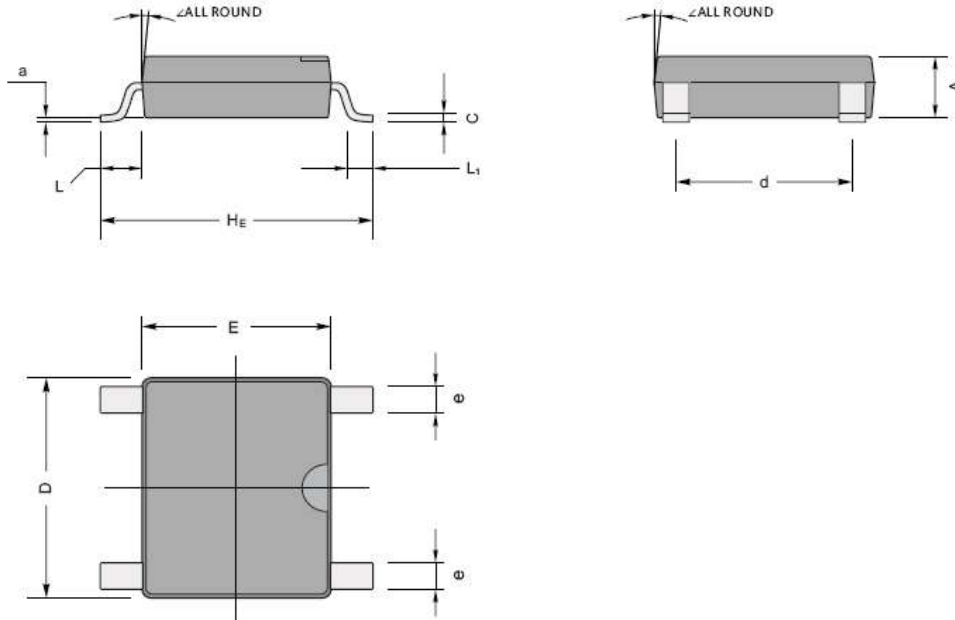
Fig.5 Maximum Non-Repetitive Peak Forward Surge Current



## PACKAGE OUTLINE

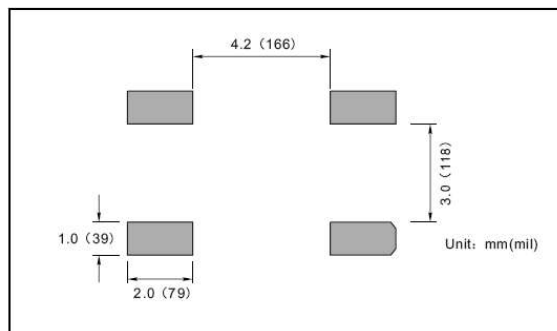
Plastic surface mounted package; 4 leads

ABS/LBF



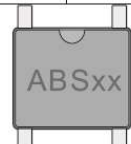
| UNIT |     | A   | C    | D   | E   | H <sub>E</sub> | d   | e   | L    | L <sub>1</sub> | a   | ∠  |
|------|-----|-----|------|-----|-----|----------------|-----|-----|------|----------------|-----|----|
| mm   | max | 1.5 | 0.22 | 5.2 | 4.5 | 6.4            | 4.2 | 0.7 | 0.95 | 0.6            | 0.2 | 7° |
|      | min | 1.3 | 0.15 | 4.9 | 4.2 | 6.0            | 3.8 | 0.5 |      |                |     |    |
| mil  | max | 59  | 8.7  | 205 | 177 | 252            | 165 | 28  | 37   | 24             | 4   |    |
|      | min | 51  | 5.9  | 193 | 166 | 236            | 150 | 20  |      |                |     |    |

### The recommended mounting pad size



### Marking

| Type number | Marking code |
|-------------|--------------|
| ABS1        | ABS1         |
| ABS2        | ABS2         |
| ABS4        | ABS4         |
| ABS6        | ABS6         |
| ABS8        | ABS8         |
| ABS10       | ABS10        |



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[>>SHIKUES\(时科\)](#)