

**2A SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER****FEATURES:**

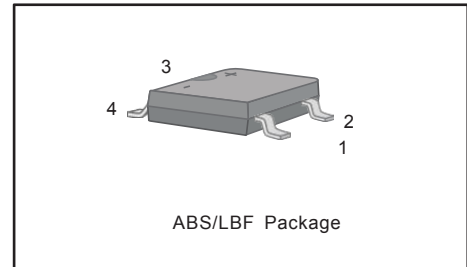
- Glass Passivated Chip Junction
- Reverse Voltage - 100 to 1000V
- Forward Current - 2A
- High Surge Current Capability
- Designed for Surface Mount Application

**MECHANICAL DATA**

- Case: ABS/LBF
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 88mg 0.0031oz

**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.

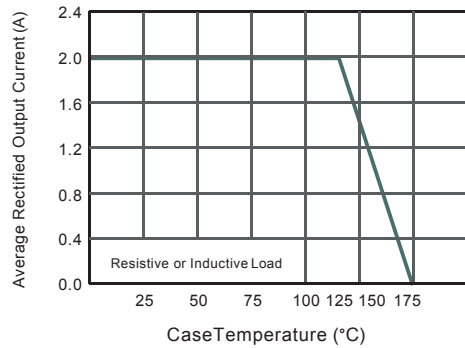
Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

| Parameter                                                                                               | Symbols                            | ABS201          | ABS202 | ABS204 | ABS206 | ABS208 | ABS210 | 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 $T_c = 115^{\circ}C$                                                | $I_o$                              | 2.0             |        |        |        |        |        | A             |
| Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)       | $I_{FSM}$                          | 55              |        |        |        |        |        | A             |
| Forward Voltage per element @ $I_F = 2.0A$                                                              | $V_F$                              | 1.0             |        |        |        |        |        | V             |
| Maximum DC Reverse Current at Rated DC Blocking Voltage @ $T_A = 25^{\circ}C$<br>@ $T_A = 125^{\circ}C$ | $I_R$                              | 5.0<br>100      |        |        |        |        |        | $\mu A$       |
| Typical Junction Capacitance (Note1)                                                                    | $C_j$                              | 25              |        |        |        |        |        | pF            |
| Typical Thermal Resistance (Note2)                                                                      | $R_{\theta JA}$<br>$R_{\theta JC}$ | 60<br>16        |        |        |        |        |        | $^{\circ}C/W$ |
| Operating and Storage Temperature Range                                                                 | $T_j, T_{stg}$                     | $-55 \sim +150$ |        |        |        |        |        | $^{\circ}C$   |

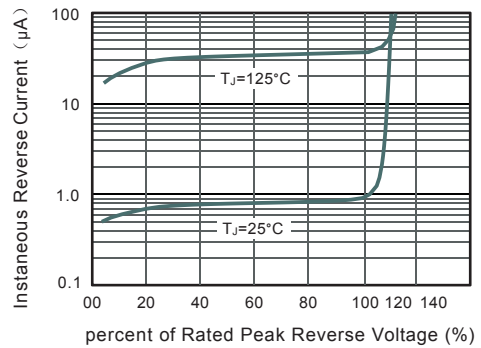
Note: 1. Measured at 1MHz and applied reverse voltage of 4 V D.C.

2. Mounted on glass epoxy PC board with 4×1.5"×1.5" (3.81×3.81 cm) copper pad.

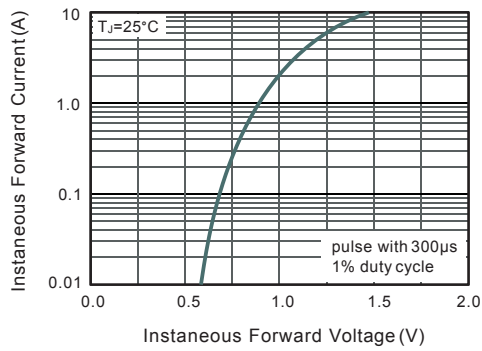
**Fig.1 Average Rectified Output Current Derating Curve**



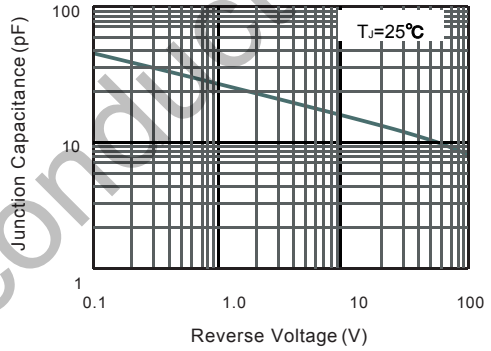
**Fig.2 Typical Reverse Characteristics**



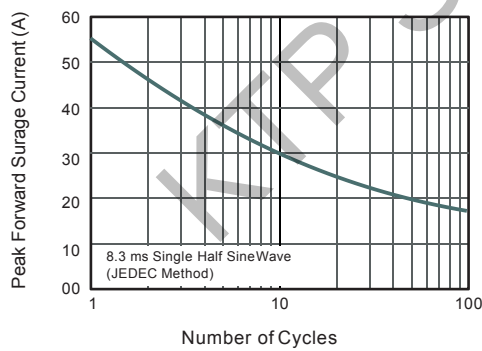
**Fig.3 Typical Instantaneous Forward Characteristics**



**Fig.4 Typical Junction Capacitance**



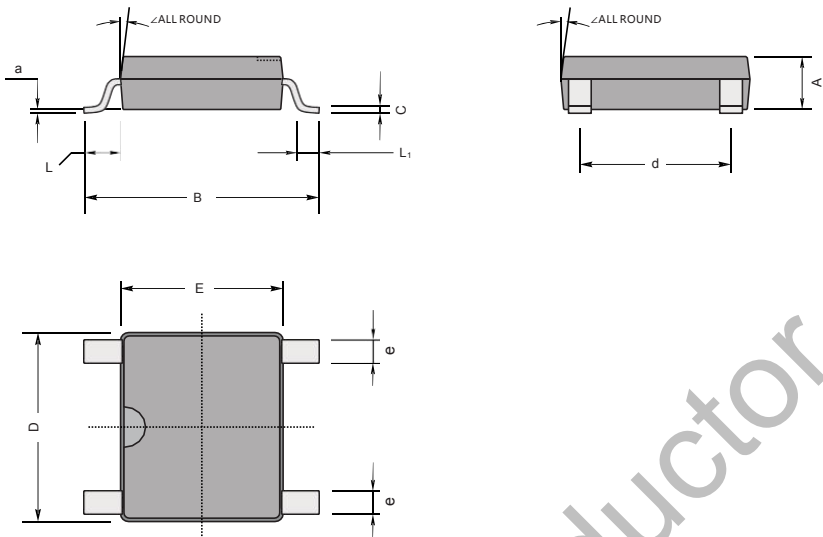
**Fig.5 Maximum Non-Repetitive Peak Forward Surge Current**



PACKAGE OUTLINE

Plastic surface mounted package; 4 leads

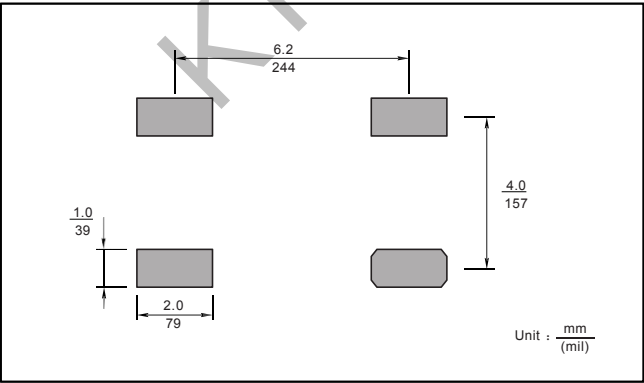
ABS/LBF



ABS/LBF mechanical data

| UNIT |     | A   | C    | D   | E   | B   | d   | e   | L    | L <sub>1</sub> | a   | ∠  |
|------|-----|-----|------|-----|-----|-----|-----|-----|------|----------------|-----|----|
| mm   | max | 1.5 | 0.22 | 5.3 | 4.6 | 6.5 | 4.2 | 0.7 | 0.95 | 0.6            | 0.2 | 5° |
|      | min | 1.3 | 0.15 | 5.0 | 4.3 | 6.1 | 3.8 | 0.5 |      |                |     |    |
| mil  | max | 59  | 8.7  | 209 | 181 | 256 | 165 | 28  | 37   | 24             | 4   |    |
|      | min | 51  | 5.9  | 197 | 169 | 240 | 150 | 20  |      |                |     |    |

The recommended mounting pad size



Marking

| Type number | Marking code |
|-------------|--------------|
| ABS201      | ABS201       |
| ABS202      | ABS202       |
| ABS204      | ABS204       |
| ABS206      | ABS206       |
| ABS208      | ABS208       |
| ABS210      | ABS210       |