

## 6A SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER

### FEATURES:

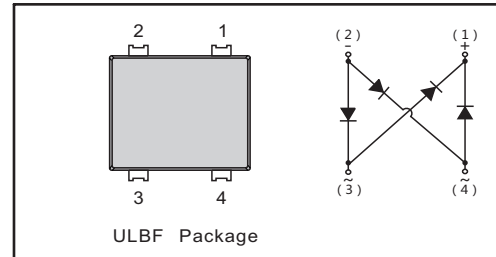
- Glass Passivated Chip Junction
- Reverse Voltage - 800 & 1000 V
- Forward Current - 6.0 A
- High Surge Current Capability
- Designed for Surface Mount Application

### MECHANICAL DATA

- Case: ULBF
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.461g / 0.0163oz

### PINNING

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



### Maximum Ratings and Electrical characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.

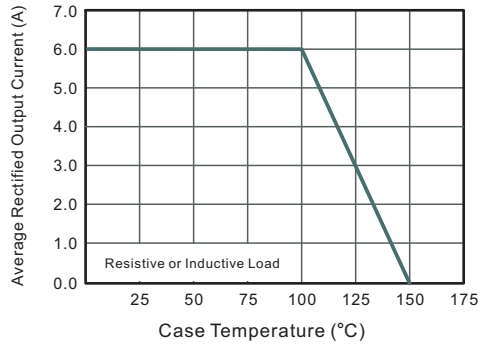
Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

| Parameter   | Symbols         | SLBF6K                            | SLBF6M | Units                     |
|---|-----------------|-----------------------------------|--------|---------------------------|
| Maximum Repetitive Peak Reverse Voltage   | $V_{RRM}$       | 800                               | 1000   | V                         |
| Maximum RMS voltage   | $V_{RMS}$       | 560                               | 700    | V                         |
| Maximum DC Blocking Voltage   | $V_{DC}$        | 800                               | 1000   | V                         |
| Average Rectified Output Current  | $I_O$           | 6.0                               |        | A                         |
| Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method) | $I_{FSM}$       | 200                               |        | A                         |
| $I^2t$ Rating for Fusing  | $I^2t$          | 166                               |        | A <sup>2</sup> S          |
| Maximum Forward Voltage at 1.0 A  | $V_F$           | 0.83 (typ.)                       |        | V                         |
| Maximum Forward Voltage at 6.0 A  | $V_F$           | 1.0                               |        | V                         |
| Maximum DC Reverse Current at Rated DC Blocking Voltage   | $I_R$           | @ $T_A=25\text{ }^\circ\text{C}$  | 5      | $\mu\text{A}$             |
|   |                 | @ $T_A=125\text{ }^\circ\text{C}$ | 100    |                           |
| Typical Junction Capacitance ( Note1 )  | $C_j$           | 60                                |        | pF                        |
| Typical Thermal Resistance ( Note2 )  | $R_{\theta JA}$ | 60                                |        | $^\circ\text{C}/\text{W}$ |
|   | $R_{\theta JC}$ | 10                                |        |                           |
|   | $R_{\theta JL}$ | 12                                |        |                           |
| Operating and Storage Temperature Range   | $T_j, T_{stg}$  | -55 ~ +150                        |        | $^\circ\text{C}$          |

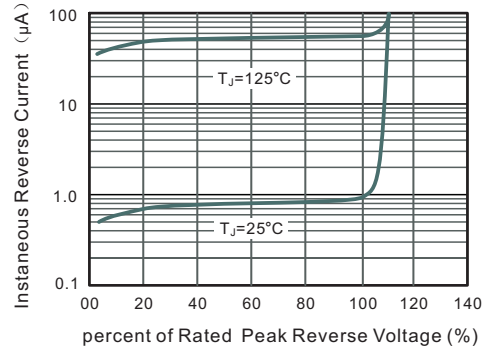
Note: 1. Measured at 1MHz and applied reverse voltage of 4 V D.C.

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

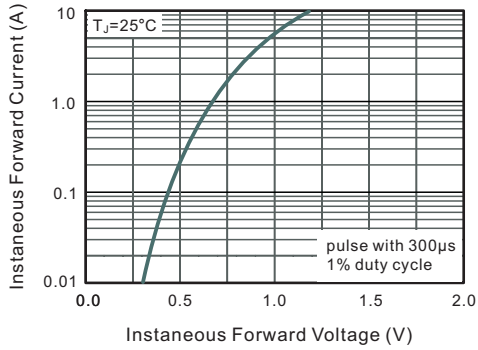
**Fig.1 Average Rectified Output Current Derating Curve**



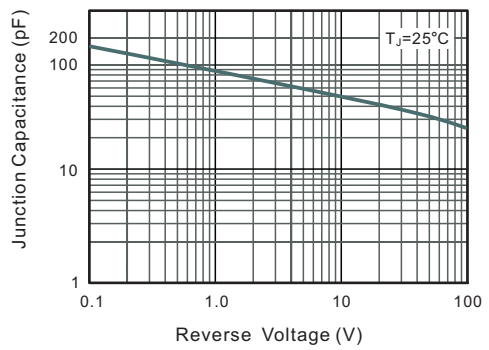
**Fig.2 Typical Reverse Characteristics**



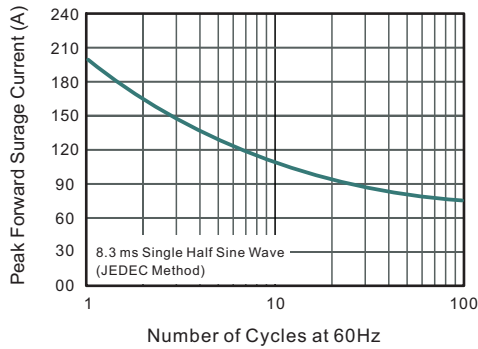
**Fig.3 Typical Instantaneous Forward Characteristics**



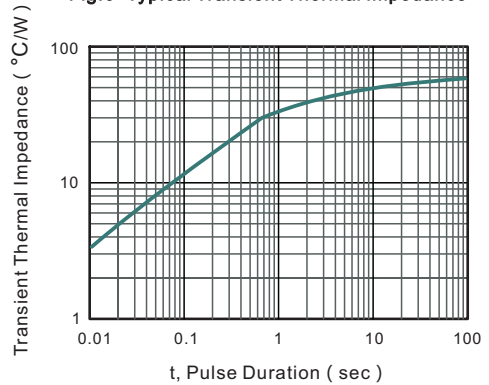
**Fig.4 Typical Junction Capacitance**



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



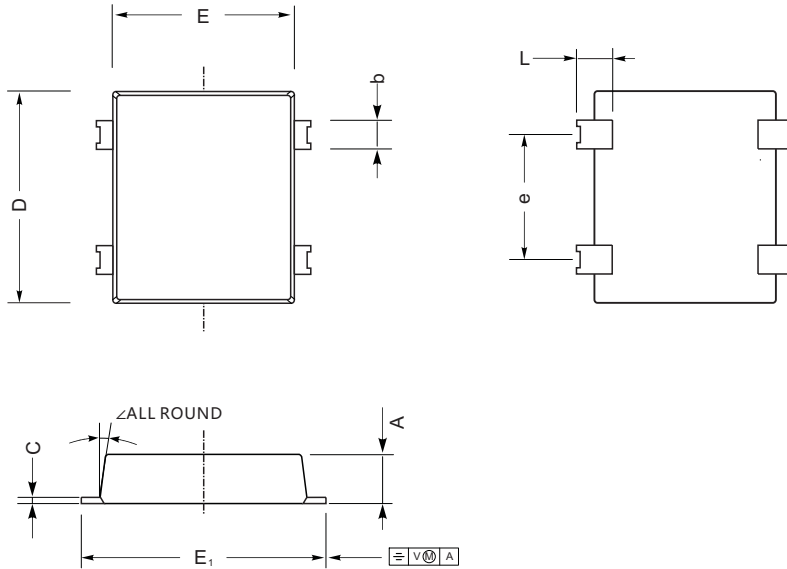
**Fig.6- Typical Transient Thermal Impedance**



## PACKAGE OUTLINE

Plastic surface mounted package; 4 leads

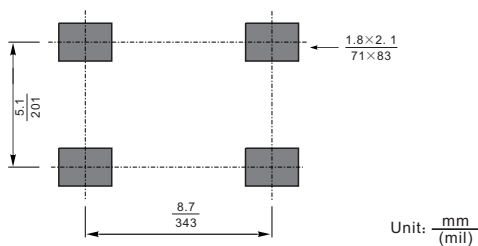
ULBF



ULBF mechanical data

| UNIT |     | A    | C    | D   | E   | E <sub>1</sub> | L    | e   | b    | ∠   |
|------|-----|------|------|-----|-----|----------------|------|-----|------|-----|
| mm   | max | 1.75 | 0.55 | 9.8 | 8.8 | 10.2           | 1.25 | 5.3 | 1.55 | 10° |
|      | min | 1.35 | 0.25 | 9.4 | 8.4 | 9.8            | 0.85 | 4.9 | 1.25 |     |
| mil  | max | 68   | 21.6 | 385 | 346 | 401            | 49   | 209 | 61   |     |
|      | min | 53   | 9.8  | 370 | 330 | 385            | 33   | 193 | 49   |     |

### The recommended mounting pad size



### Marking

| Type number | Marking code |
|-------------|--------------|
| SLBF6K      | SLBF6K       |
| SLBF6M      | SLBF6M       |

单击下面可查看定价，库存，交付和生命周期等信息

[>>SHIKUES\(时科\)](#)