

6A SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER

FEATURES:

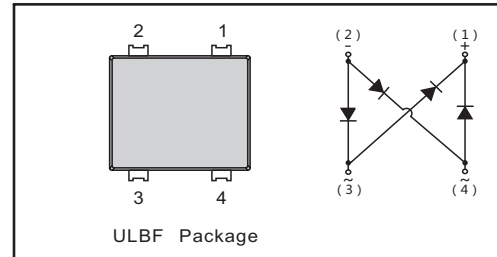
- Glass Passivated Chip Junction
- Reverse Voltage - 800 & 1000 V
- Forward Current - 6.0 A
- High Surge Current Capability
- Designed for Surface Mount Application

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 ² 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 | μA |
| | | @ $T_A=125\text{ }^\circ\text{C}$ | 100 | |
| Typical Junction Capacitance (Note1) | C_j | 60 | | pF |
| Typical Thermal Resistance (Note2) | $R_{\theta JA}$ | 60 | | $^\circ\text{C/W}$ |
| | $R_{\theta JC}$ | 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

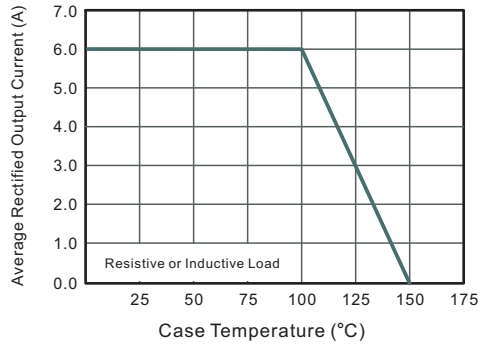


Fig.2 Typical Reverse Characteristics

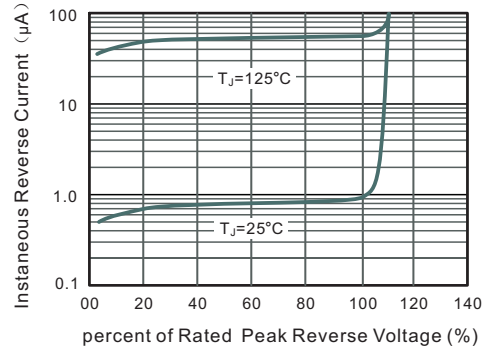


Fig.3 Typical Instantaneous Forward Characteristics

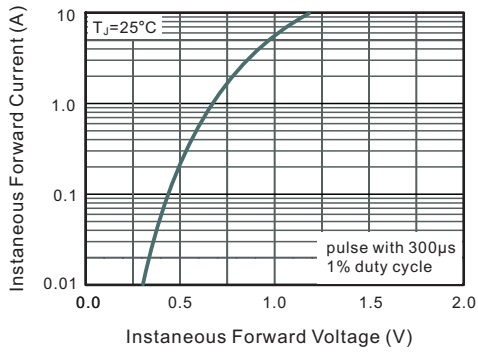


Fig.4 Typical Junction Capacitance

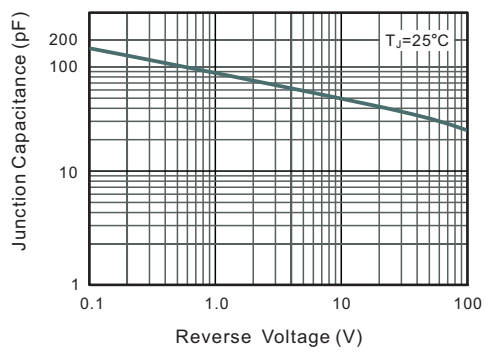


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

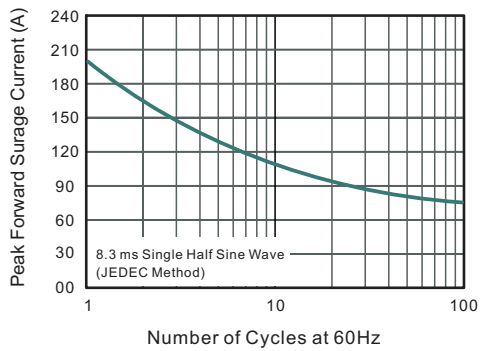
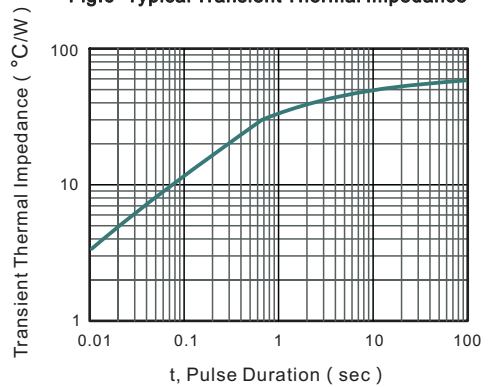


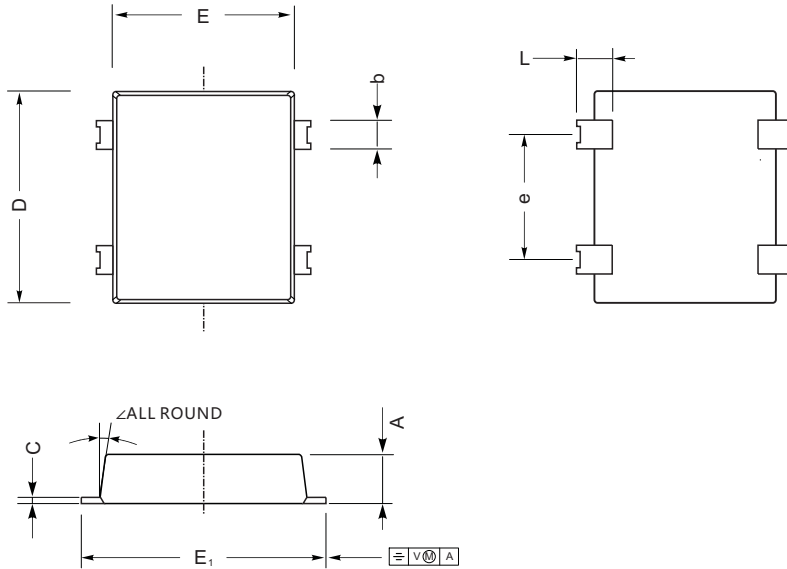
Fig.6- Typical Transient Thermal Impedance



PACKAGE OUTLINE

Plastic surface mounted package; 4 leads

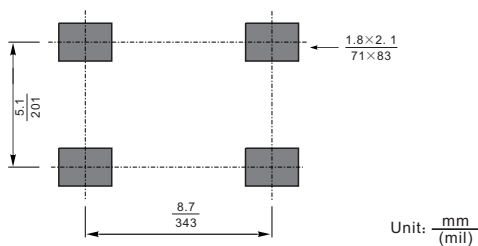
ULBF



ULBF mechanical data

| UNIT | | A | C | D | E | E ₁ | 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\(时科\)](#)