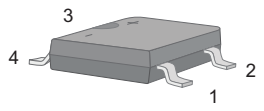
## 0.8A SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER

### 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

### PINNING

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




ABS/LBF Package

### MECHANICAL DATA

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

### 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 | TB1S | TB2S | TB4S | TB6S | TB8S | TB10S | 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 $T_c$ = 125 °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 @$I_F$= 0.4A<br>@$I_F$= 0.8A | $V_F$ | 1.0<br>1.1 | | | | | | V |
| Maximum DC Reverse Current at Rated DC Blocking Voltage @$T_A$=25 °C<br>@$T_A$=100°C<br>@$T_A$=125 °C | $I_R$ | 5.0<br>50<br>100 | | | | | | μA |
| Typical Thermal Resistance ( Note2 ) | $R_{\theta JA}$<br>$R_{\theta JC}$ | 80<br>22 | | | | | | °C/W |
| Operating and Storage Temperature Range | $T_j$, $T_{stg}$ | -55 ~ +150 | | | | | | °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**

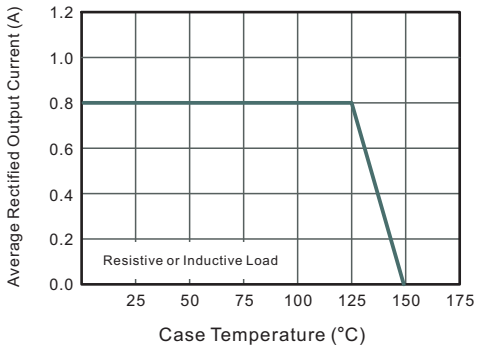



**Fig.2 Typical Reverse Characteristics**

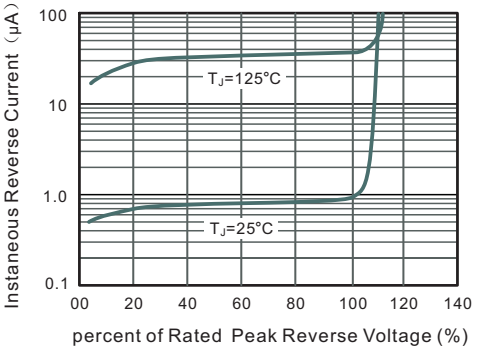



**Fig.3 Typical Instaneous Forward Characteristics**

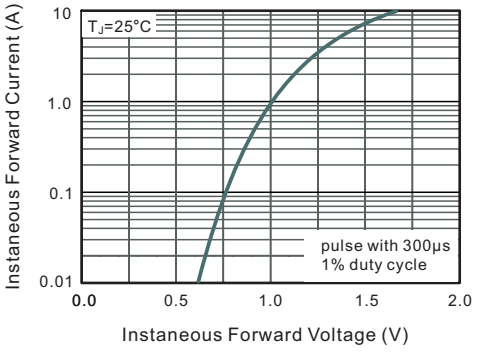
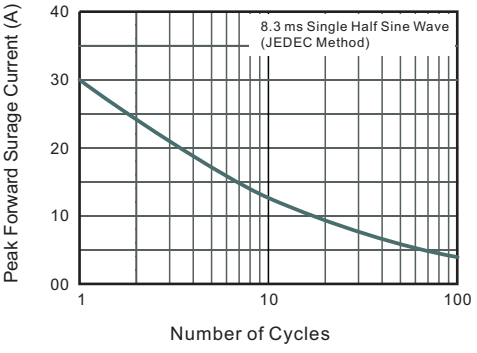


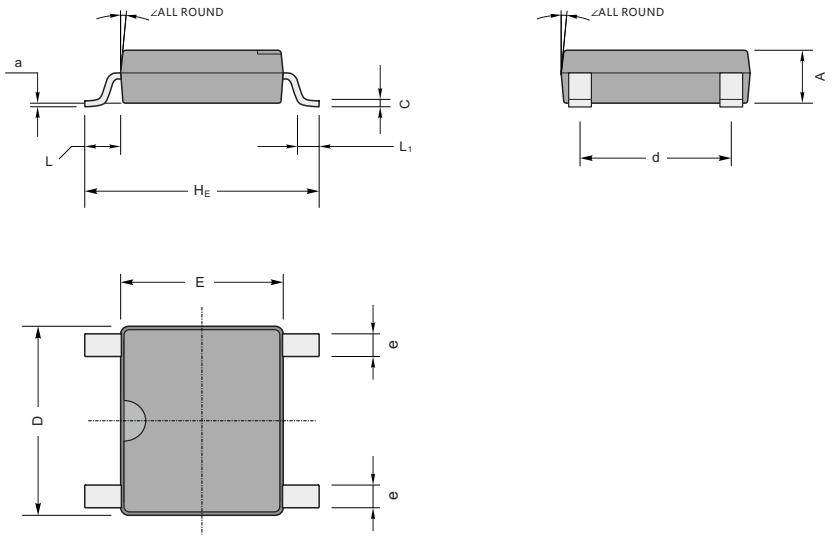

**Fig.5 Maximum Non-Repetitive Peak Forward Surage Current**



## PACKAGE OUTLINE

**Plastic surface mounted package; 4 leads**

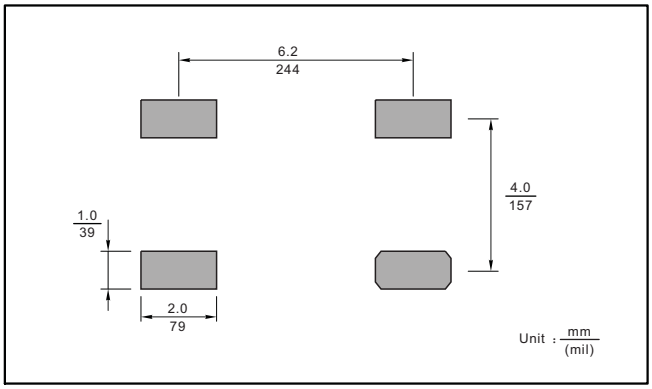
ABS/LBF




ABS/LBF mechanical data

| UNIT | | A | C | D | E | $H_E$ | d | e | L | $L_1$ | 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 |
|---|---|
| TB1S | TB1S |
| TB2S | TB2S |
| TB4S | TB4S |
| TB6S | TB6S |
| TB8S | TB8S |
| TB10S | TB10S |

