

## Descriptions

0.8A Surface Mount Glass Passivated Bridge Rectifier, ABS/LBF thin package.

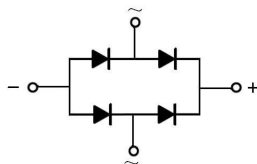
## Features

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

## Applications

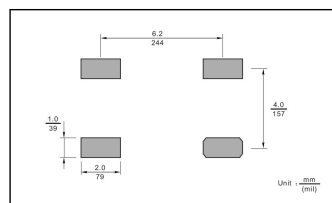
General purpose.

## Equivalent Circuit & Pinning



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

The recommended mounting pad size



**ABS/LBF**

## Absolute Maximum Ratings(Ta=25°C)

| Parameter                                                                                                     | Symbol          | Rating  |      |      |      |      |       | Unit |
|---------------------------------------------------------------------------------------------------------------|-----------------|---------|------|------|------|------|-------|------|
|                                                                                                               |                 | ABS1    | ABS2 | ABS4 | ABS6 | ABS8 | ABS10 |      |
| 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 Ta = 40 °C                                                                | $I_o$           | 0.8     |      |      |      |      |       | A    |
| Peak Forward Surge Current<br>8.3 ms Single Half<br>Sine Wave Superimposed on<br>Rated Load<br>(JEDEC Method) | $I_{FSM}$       | 30      |      |      |      |      |       | A    |
| Typical Junction Capacitance<br>(Note1)                                                                       | $C_i$           | 13      |      |      |      |      |       | pF   |
| Typical Thermal Resistance<br>(Note2)                                                                         | $R_{\theta JA}$ | 85      |      |      |      |      |       | °C/W |
|                                                                                                               | $R_{\theta JL}$ | 30      |      |      |      |      |       | °C/W |
| Operating and Storage Temperature Range                                                                       | $T_j, T_{stg}$  | -55~150 |      |      |      |      |       | °C   |

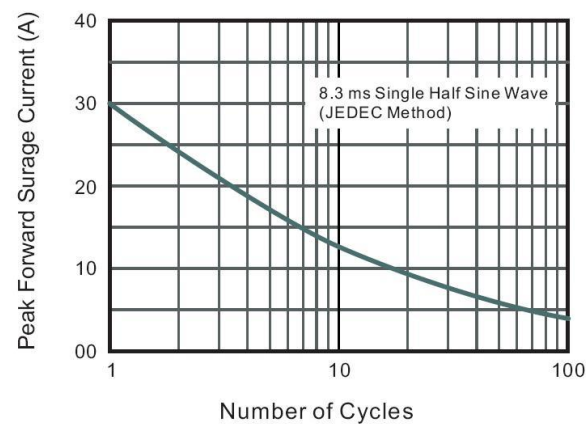
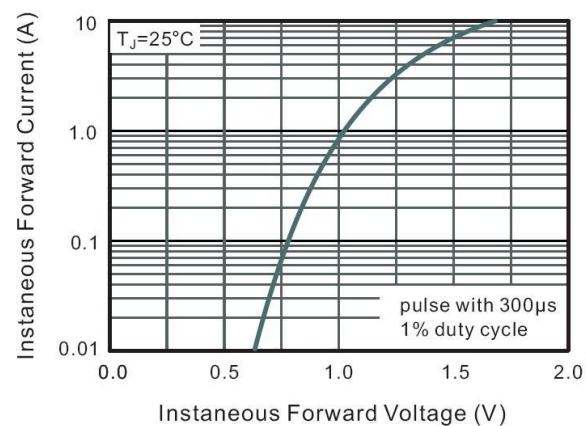
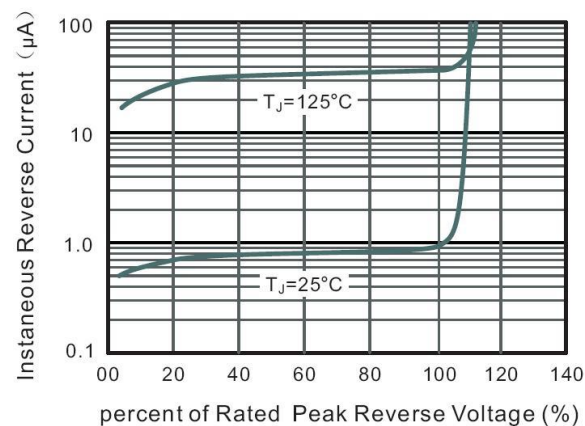
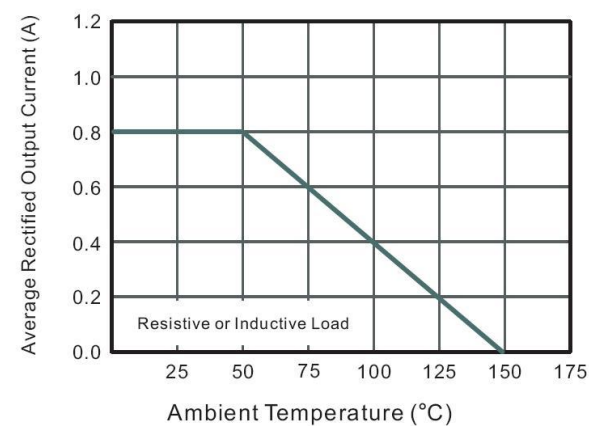
Note:

1. Measured at 1MHz and applied reverse voltage of 4 V D.C.
2. Mounted on glass epoxy PC board with 4×( 5×5mm<sup>2</sup> ) copper pad.

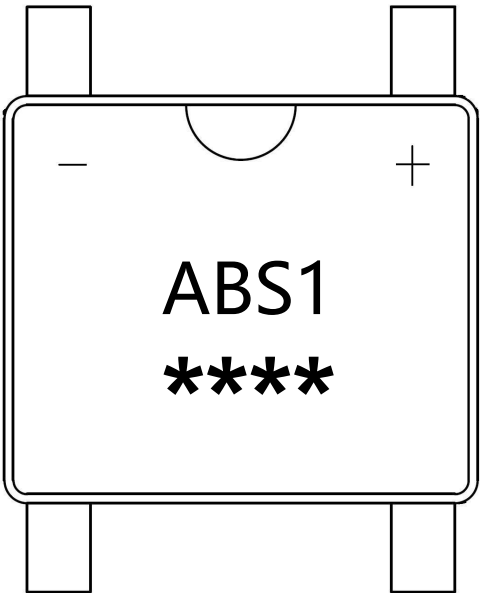
## Electrical Characteristics(Ta=25°C)

| Parameter                                                 | Symbol | Test Conditions    | Rating | Unit    |
|-----------------------------------------------------------|--------|--------------------|--------|---------|
| Forward Voltage per element                               | $V_F$  | $I_F=0.4A$         | 1.0    | V       |
|                                                           |        | $I_F=0.8A$         | 1.1    |         |
| Maximum DC Reverse Current at Maximum DC Blocking Voltage | $I_R$  | $T_a=25^{\circ}C$  | 5.0    | $\mu A$ |
|                                                           |        | $T_a=100^{\circ}C$ | 50     |         |
|                                                           |        | $T_a=125^{\circ}C$ | 100    |         |

Electrical Characteristic Curve



Marking Instructions



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

Note:

ABS1: Product Type Code

\*\*\*\*: Lot No. Code, The 1st \* means:YM Code, The last 3 \* means:little Lot No Code

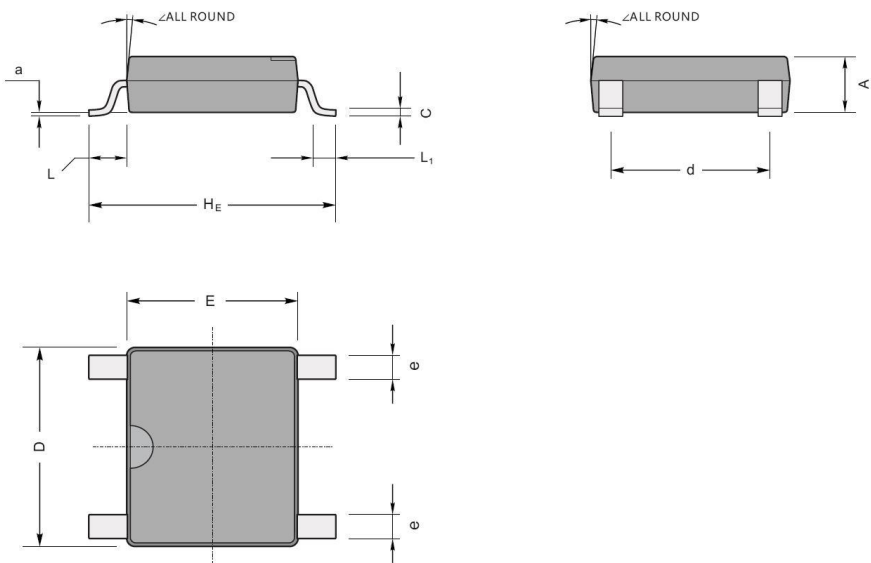
Packaging SPEC

REEL

| Package Type | Units      |                 |                 |                       |                 | Dimension (unit: mm <sup>3</sup> ) |            |             |
|--------------|------------|-----------------|-----------------|-----------------------|-----------------|------------------------------------|------------|-------------|
|              | Units/Reel | Reels/Inner Box | Units/Inner Box | Inner Boxes/Outer Box | Units/Outer Box | Reel                               | Inner Box  | Outer Box   |
| ABS/LBF      | 5000       | 2               | 10000           | 5                     | 50000           | 13" ×15                            | 336X336X40 | 380X335X366 |

Package Outline Dimensions

ABS/LBF



ABS/LBF mechanical data

| 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  |      |                |     |    |