

S1ZA60

600V 1.1A

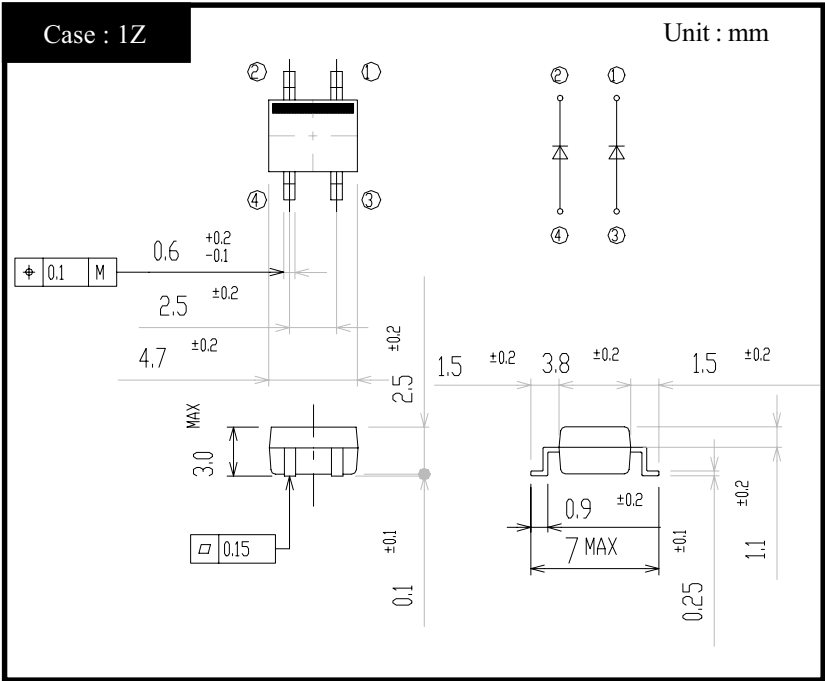
FEATURES

- Small SMT package
- Array
- High reliability with superior moisture resistance
- Applicable to Automatic Insertion

APPLICATION

- Conventional Rectification
- Motor
- Home Appliances, Office Equipment
- Telecommunication, Factory Automation

OUTLINE DIMENSIONS



RATINGS

●Absolute Maximum Ratings (If not specified Tl=25°C)

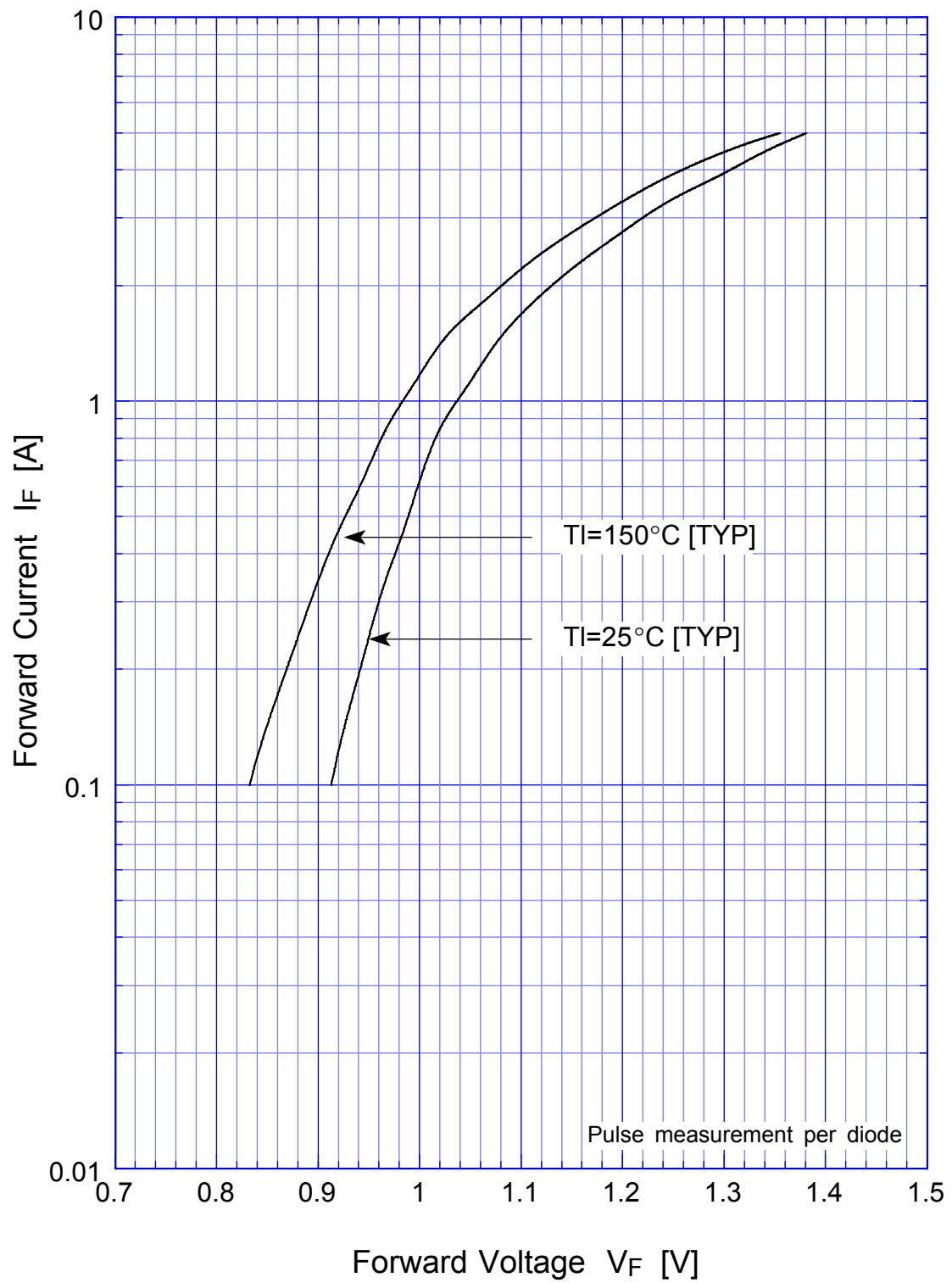
| Item                              | Symbol | Conditions                                                                   | Ratings | Unit |
|-----------------------------------|--------|------------------------------------------------------------------------------|---------|------|
| Storage Temperature               | Tstg   |                                                                              | -40~150 | °C   |
| Operating Junction Temperature    | Tj     |                                                                              | 150     | °C   |
| Maximum Reverse Voltage           | VRM    |                                                                              | 600     | V    |
| Average Rectified Forward Current | IO     | 50Hz sine wave, R-load, Ta=25°C On alumina substrate 1 element operation     | 1.1     | A    |
|                                   |        | 50Hz sine wave, R-load, Ta=25°C On alumina substrate 2 element operation     | 0.8     |      |
|                                   |        | 50Hz sine wave, R-load, Ta=25°C On glass-epoxy substrate 1 element operation | 0.9     |      |
|                                   |        | 50Hz sine wave, R-load, Ta=25°C On glass-epoxy substrate 2 element operation | 0.63    |      |
| Peak Surge Forward Current        | IFSM   | 50Hz sine wave, Non-repetitive 1cycle peak value, Tj=25°C                    | 30      | A    |

●Electrical Characteristics (If not specified Tl=25°C)

| Item               | Symbol | Conditions                                                      | Ratings | Unit |
|--------------------|--------|-----------------------------------------------------------------|---------|------|
| Forward Voltage    | VF     | IF=0.9A, Pulse measurement, Rating of per diode                 | Max.1.1 | V    |
| Reverse Current    | IR     | VR=VRM, Pulse measurement, Rating of per diode                  | Max.10  | μA   |
| Thermal Resistance | θja    | unction to ambient On alumina substrate 1 element operation     | Max.93  | °C/W |
|                    |        | unction to ambient On alumina substrate 2 element operation     | Max.140 |      |
|                    |        | unction to ambient On glass-epoxy substrate 1 element operation | Max.120 |      |
|                    |        | unction to ambient On glass-epoxy substrate 2 element operation | Max.186 |      |

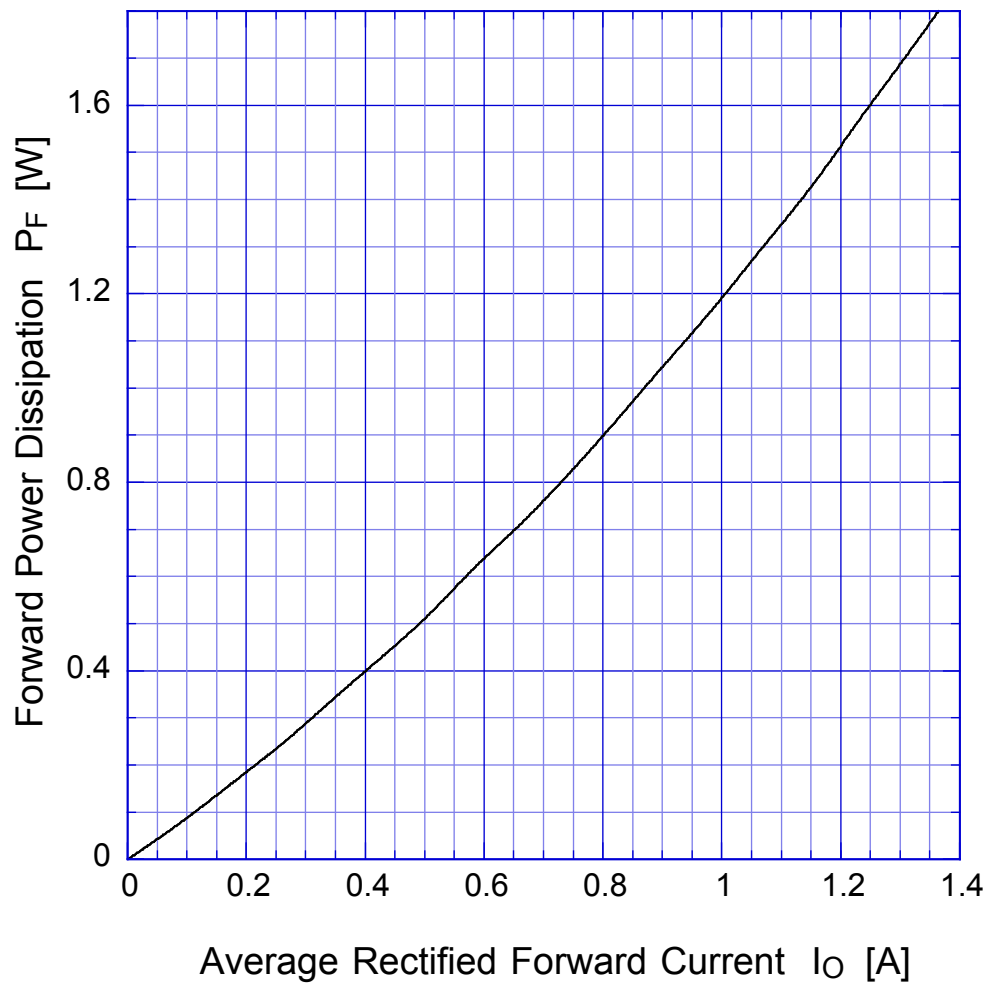
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Forward Voltage



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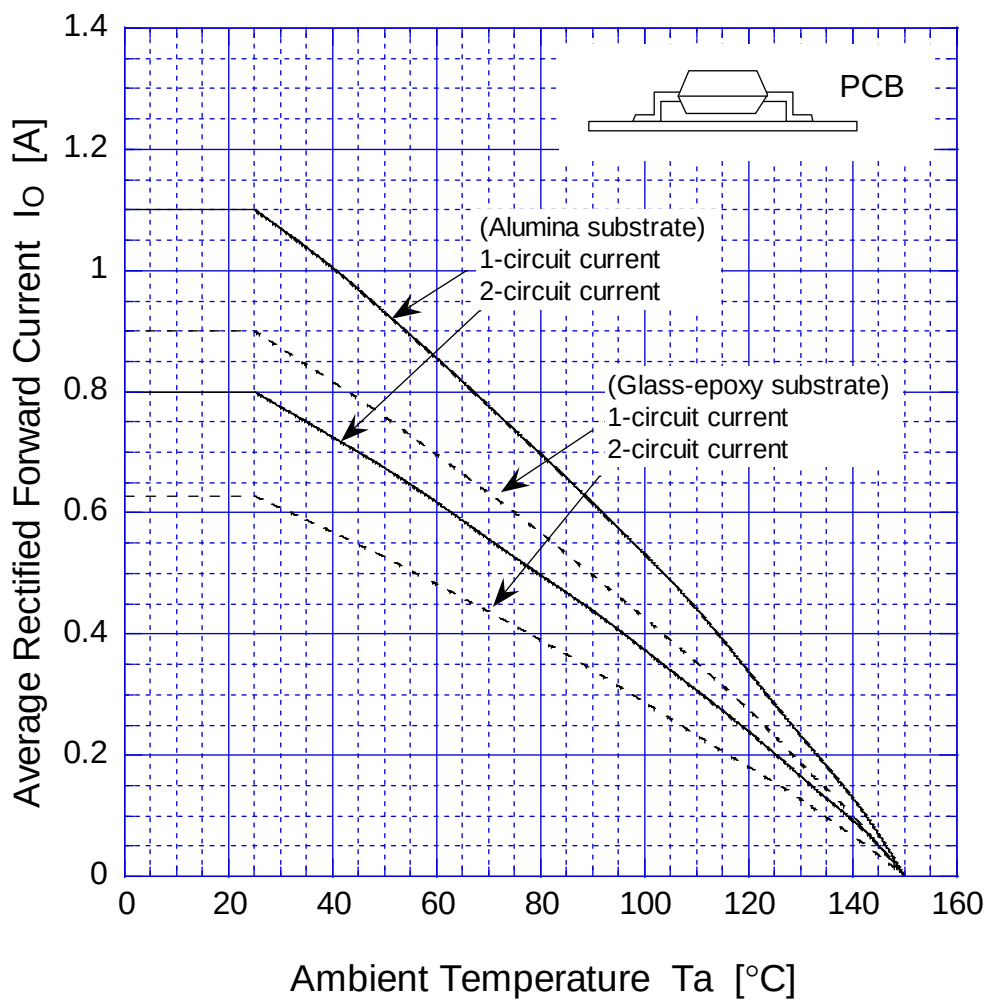
Forward Power Dissipation



$T_j = 150^\circ\text{C}$   
Sine wave

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Derating Curve



Alumina substrate  
Soldering land 1mm×1mm  
Conductor layer 20μm  
Substrate thickness 0.64mm

Glass-epoxy substrate  
Soldering land 1mm×1mm  
Conductor layer 35μm

Sine wave  
R-load  
Free in air

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## Peak Surge Forward Capability

