

S1WB(A)60

600V 1A

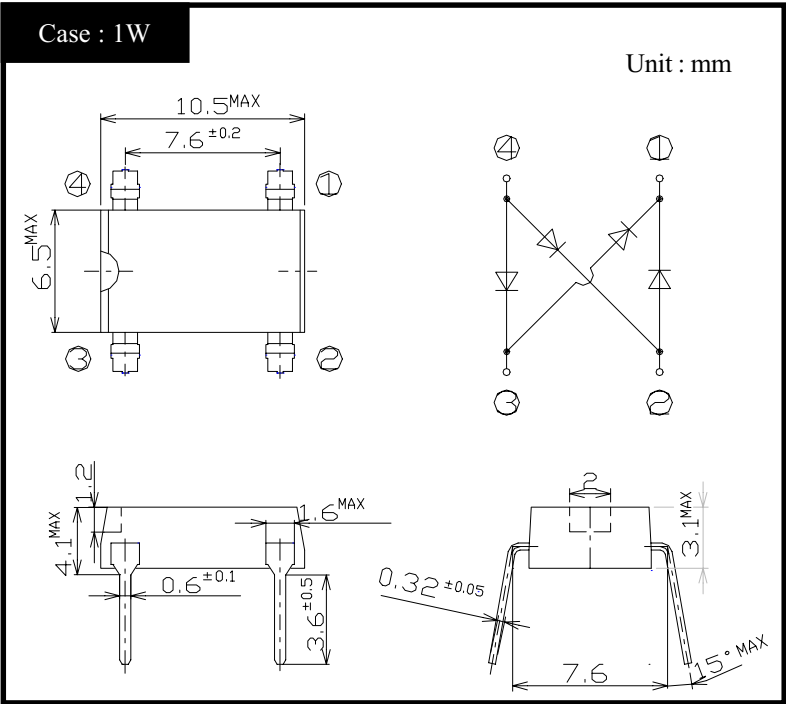
FEATURES

- High IFSM
- Applicable to Automatic Insertion

APPLICATION

- Switching power supply
- Home Appliances, Office Equipment
- Telecommunication, Factory Automation

OUTLINE DIMENSIONS



RATINGS

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

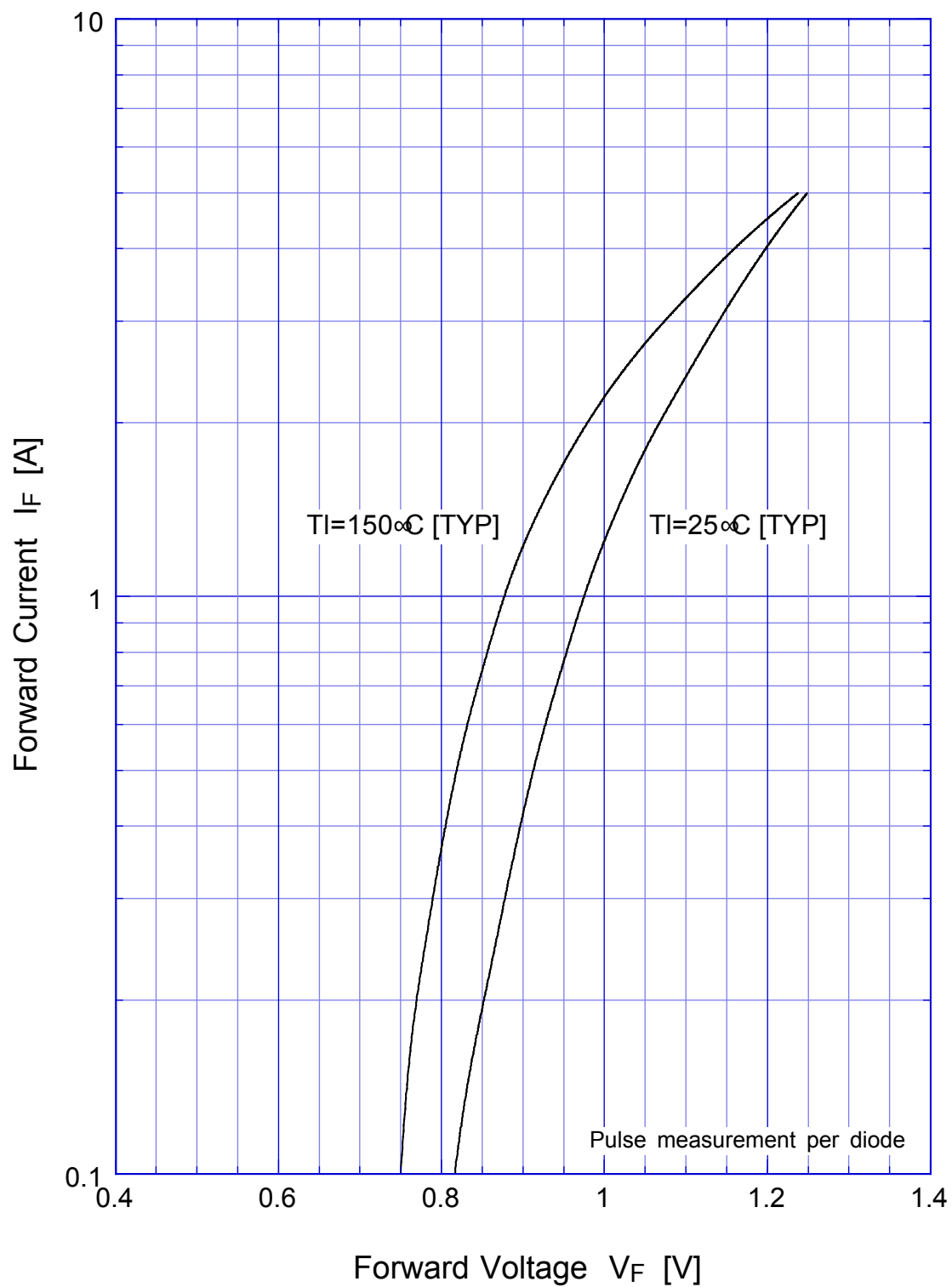
| Item                              | Symbol | Conditions                                                 | Ratings | Unit |
|-----------------------------------|--------|------------------------------------------------------------|---------|------|
| Storage Temperature               | Tstg   |                                                            | -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                            | 1       | A    |
| Peak Surge Forward Current        | IFSM   | 50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C | 30      | A    |
| Current Squared Time              | I²t    | 1ms≤t<10ms Tj=25°C                                         | 4.5     | A²s  |

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

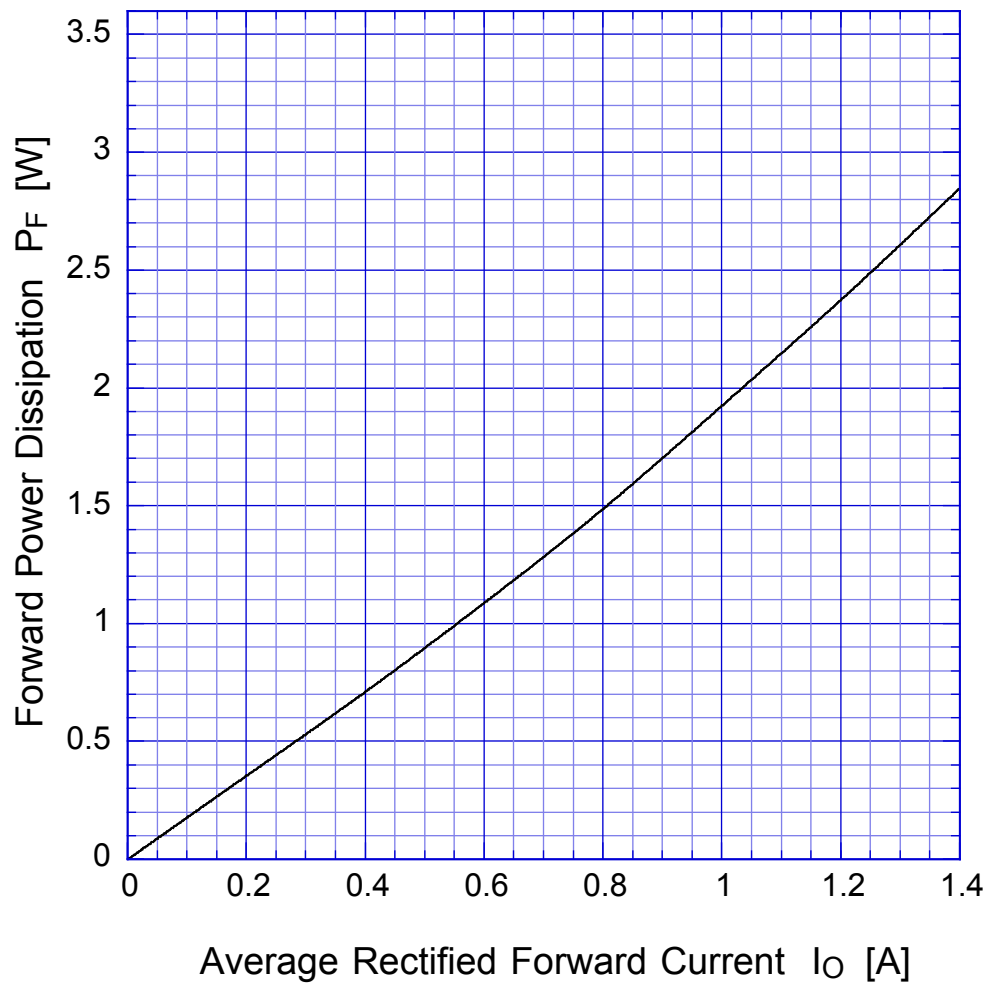
| Item               | Symbol | Conditions                                      | Ratings | Unit |
|--------------------|--------|-------------------------------------------------|---------|------|
| Forward Voltage    | VF     | IF=0.5A, Pulse measurement, Rating of per diode | Max.1.0 | V    |
| Reverse Current    | IR     | VR=VRM, Pulse measurement, Rating of per diode  | Max.10  | μA   |
| Thermal Resistance | θjl    | junction to lead                                | Max.10  | °C/W |
|                    | θja    | junction to ambient                             | Max.65  |      |

S1WB(A)x

Forward Voltage



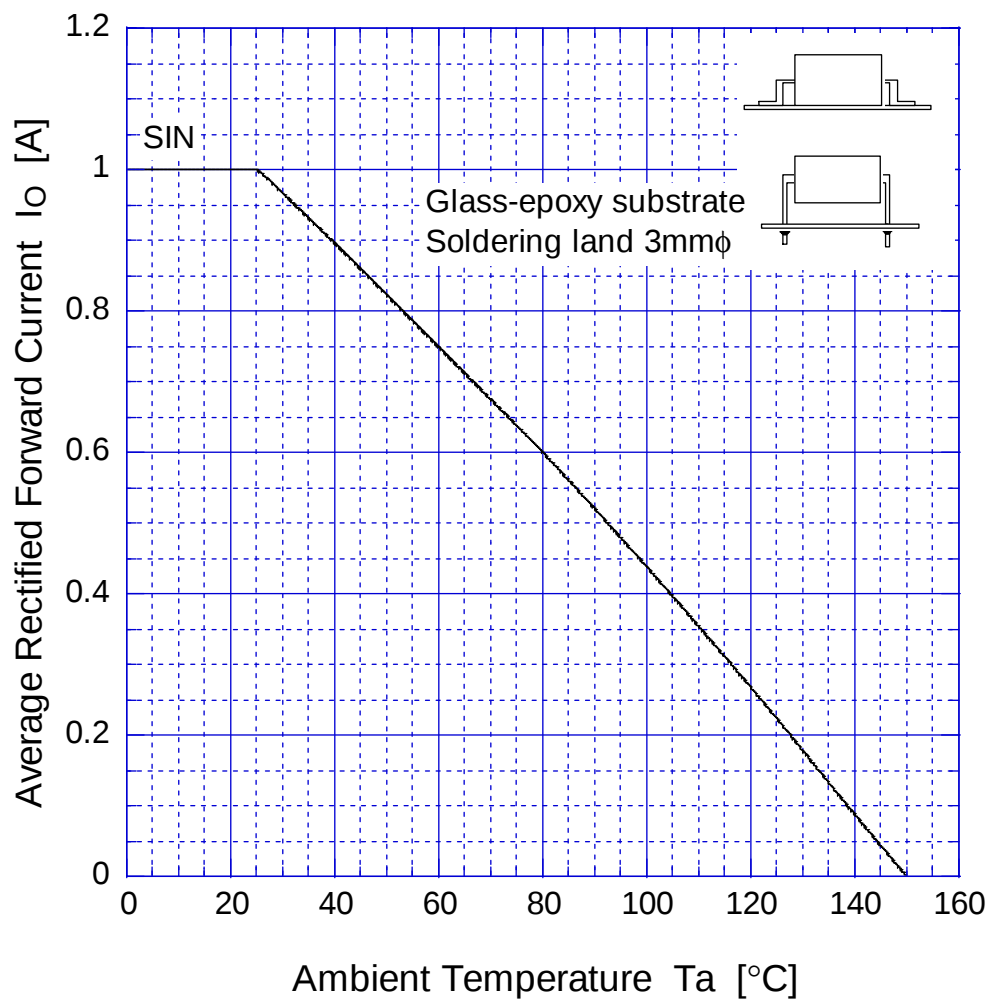
## S1WB(A)x    Forward Power Dissipation



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

S1WB(A)x

Derating Curve



Sine wave

R-load

Free in air

S1WB(A)x

Peak Surge Forward Capability

