

S1WB(A)60

600V 1A

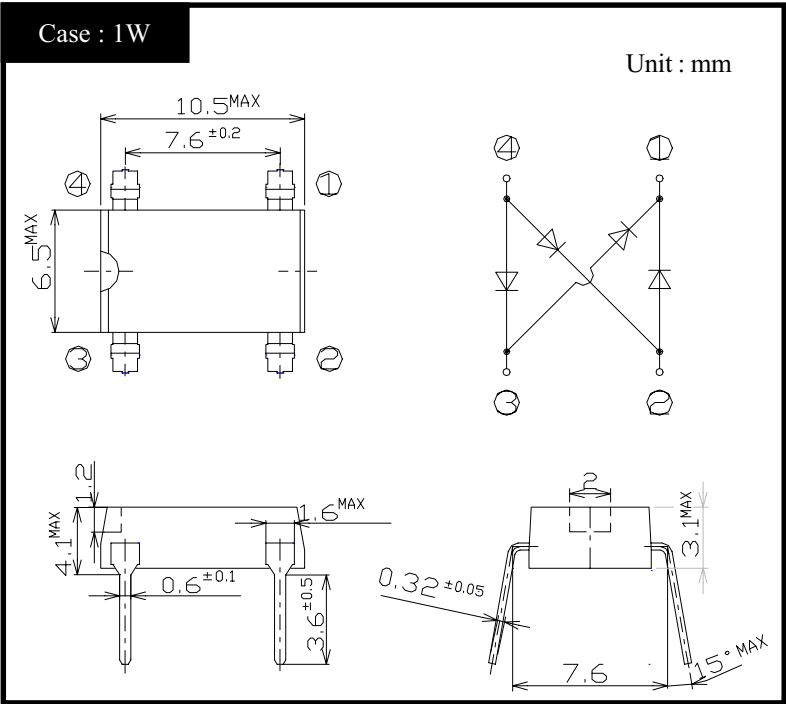
FEATURES

- 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)

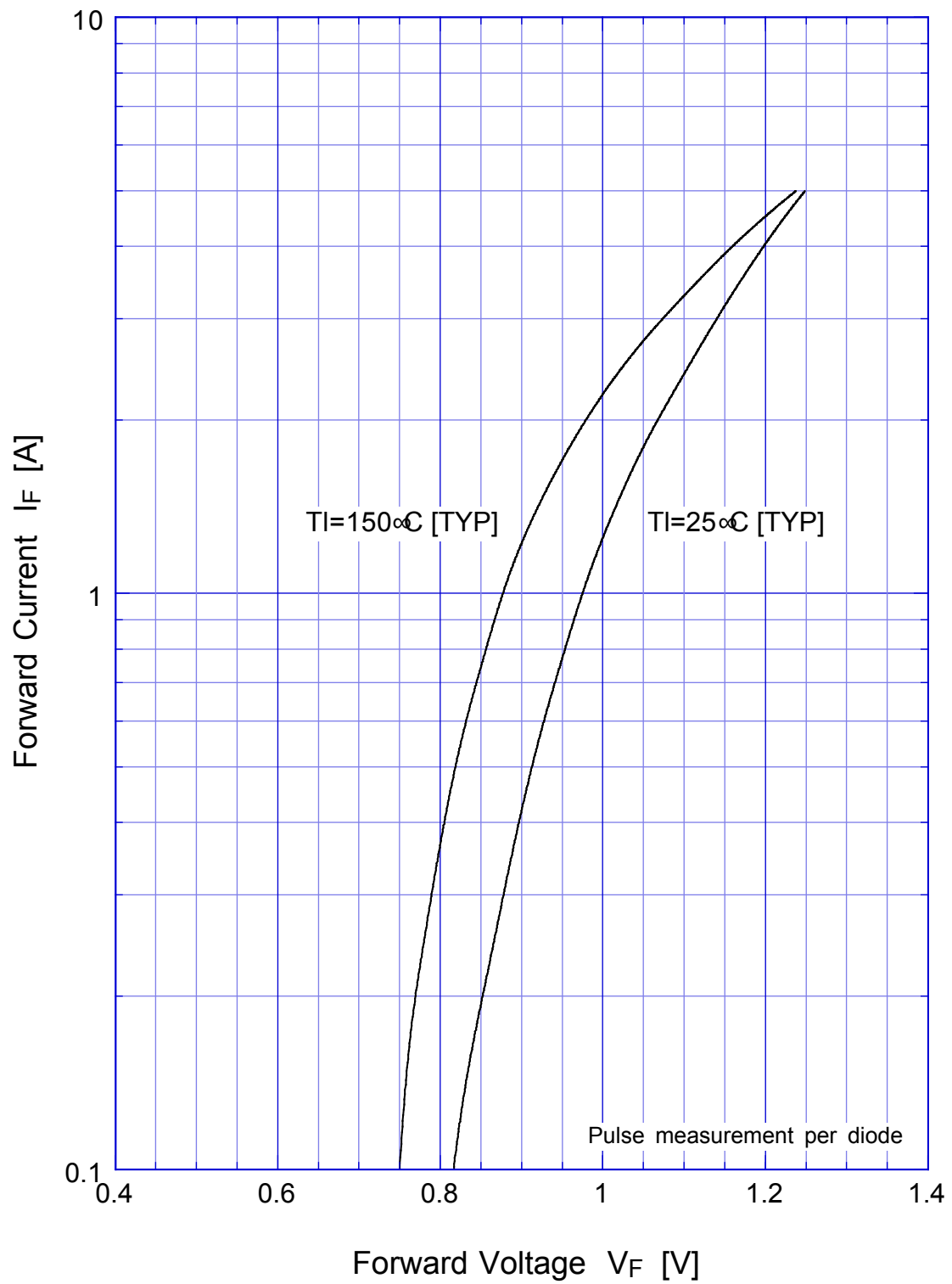
| Item                              | Symbol           | Conditions                                                              | Ratings | Unit             |
|-----------------------------------|------------------|-------------------------------------------------------------------------|---------|------------------|
| Storage Temperature               | T <sub>stg</sub> |                                                                         | -40~150 | °C               |
| Operating Junction Temperature    | T <sub>j</sub>   |                                                                         | 150     | °C               |
| Maximum Reverse Voltage           | V <sub>RM</sub>  |                                                                         | 600     | V                |
| Average Rectified Forward Current | I <sub>O</sub>   | 50Hz sine wave, R-load, T <sub>a</sub> =25°C                            | 1       | A                |
| Peak Surge Forward Current        | I <sub>FSM</sub> | 50Hz sine wave, Non-repetitive 1 cycle peak value, T <sub>j</sub> =25°C | 30      | A                |
| Current Squared Time              | I <sup>2</sup> t | 1ms ≤ t < 10ms T <sub>j</sub> =25°C                                     | 4.5     | A <sup>2</sup> s |

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

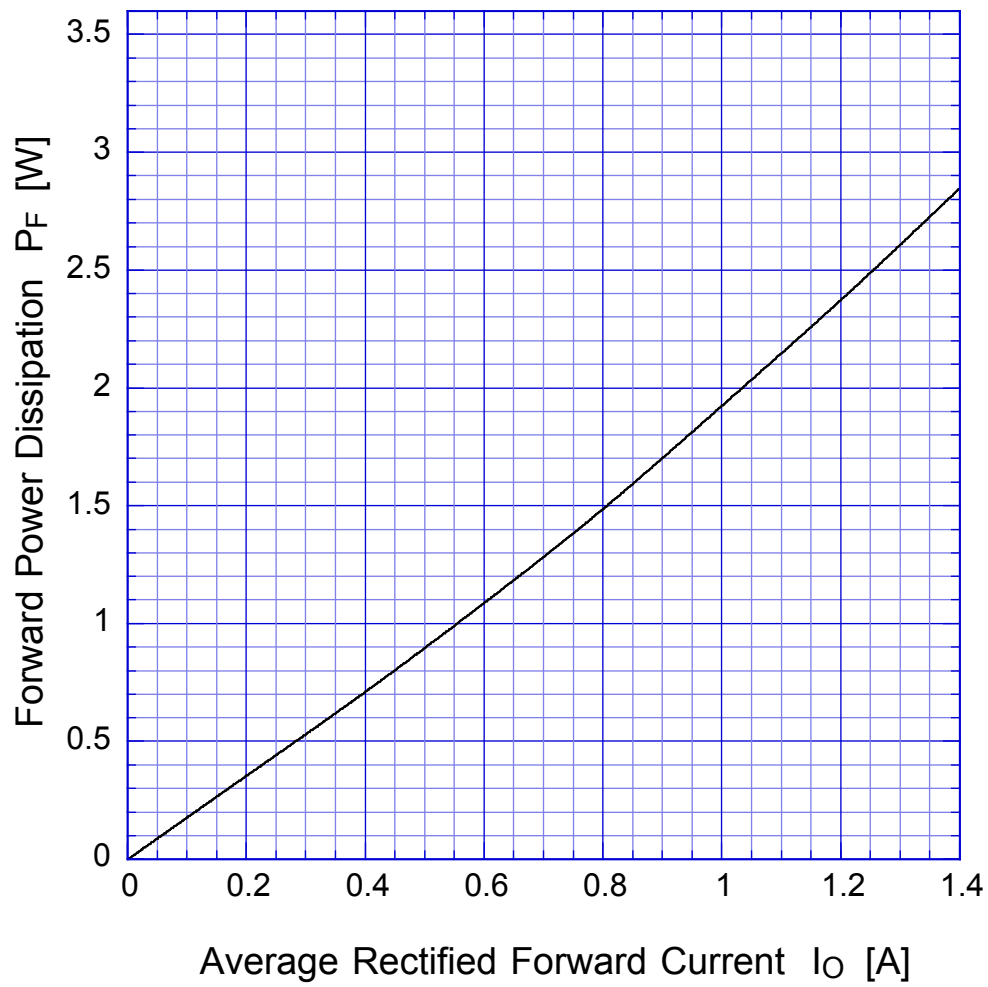
| Item               | Symbol          | Conditions                                                               | Ratings | Unit |
|--------------------|-----------------|--------------------------------------------------------------------------|---------|------|
| Forward Voltage    | V <sub>F</sub>  | I <sub>F</sub> =0.5A, Pulse measurement, Rating of per diode             | Max.1.0 | V    |
| Reverse Current    | I <sub>R</sub>  | V <sub>R</sub> =V <sub>RM</sub> , Pulse measurement, Rating of per diode | Max.10  | μA   |
| Thermal Resistance | θ <sub>jl</sub> | junction to lead                                                         | Max.10  | °C/W |
|                    | θ <sub>ja</sub> | junction to ambient                                                      | Max.65  |      |

S1WB(A)x

Forward Voltage



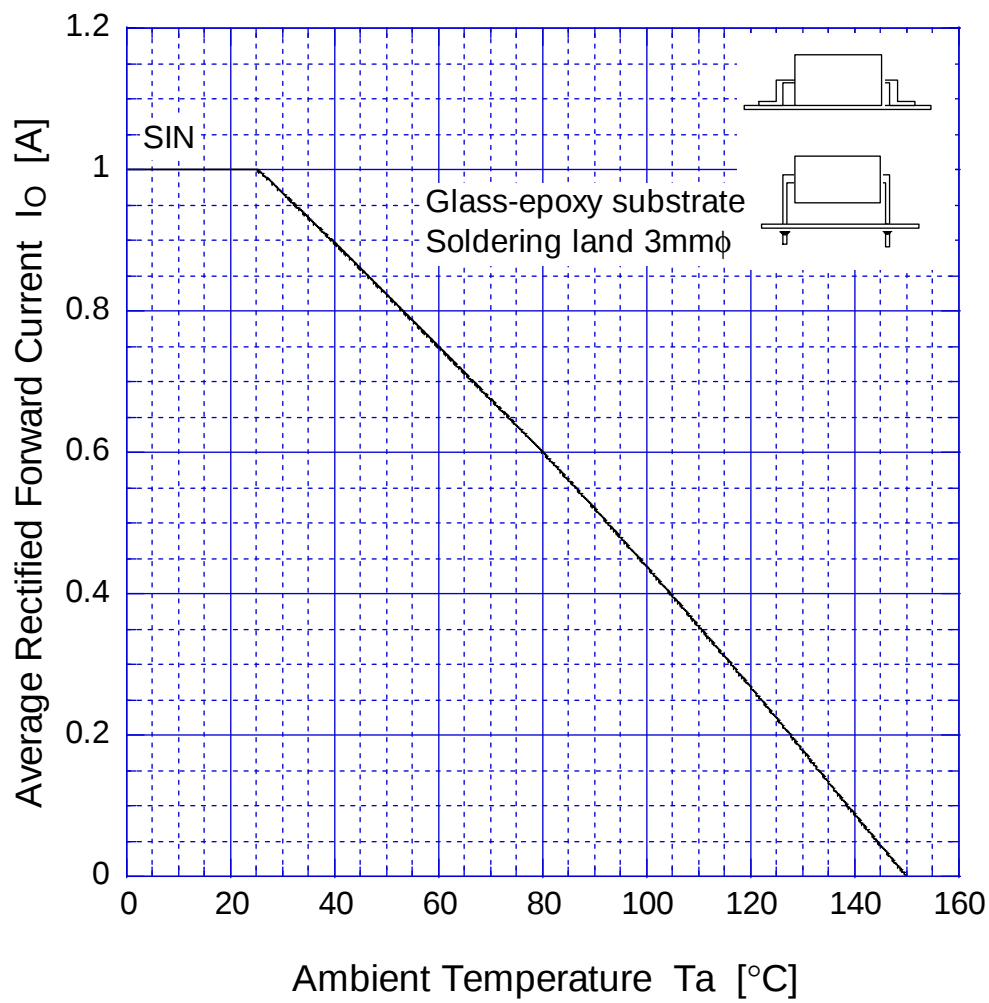
## S1WB(A)x    Forward Power Dissipation



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

S1WB(A)x

Derating Curve



Sine wave

R-load

Free in air

S1WB(A)x

Peak Surge Forward Capability

