

S1WB(A)80

800V 1A

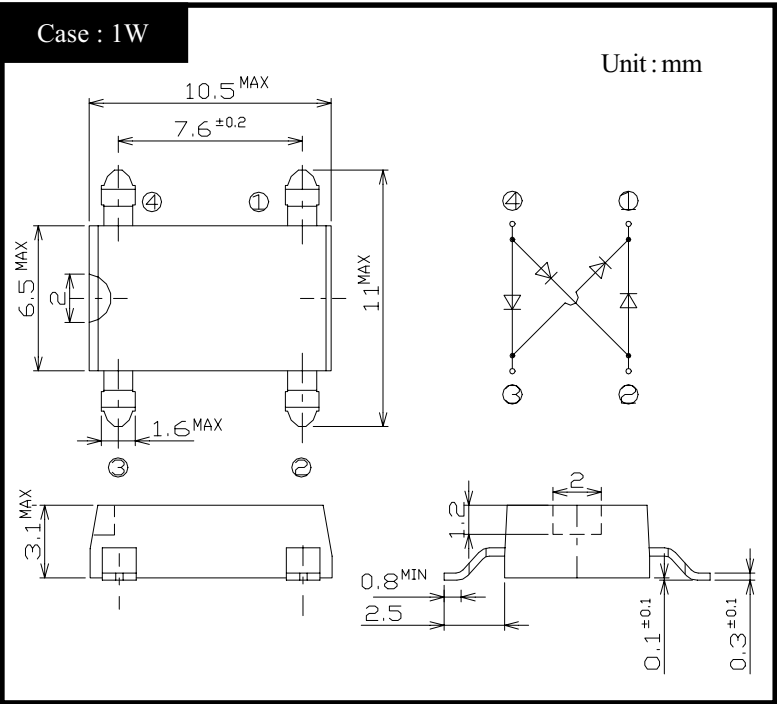
FEATURES

- Small SMT
- 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 TI=25°C)

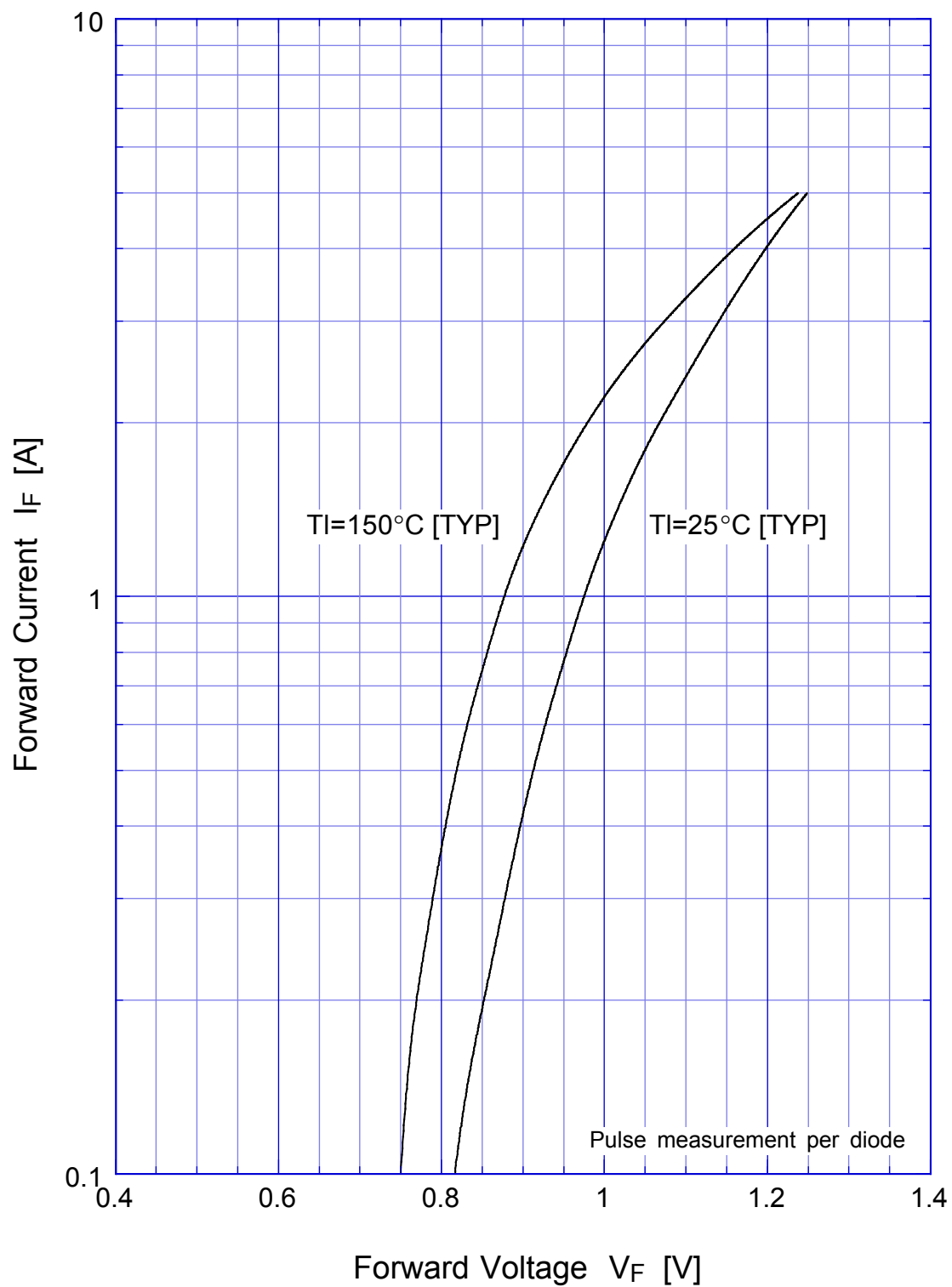
| Item                              | Symbol           | Conditions                                                  | Ratings | Unit             |
|-----------------------------------|------------------|-------------------------------------------------------------|---------|------------------|
| Storage Temperature               | T stg            |                                                             | -40~150 | °C               |
| Operating Junction Temperature    | T j              |                                                             | 150     | °C               |
| Maximum Reverse Voltage           | V RM             |                                                             | 800     | V                |
| Average Rectified Forward Current | I O              | 50Hz sine wave, R-load, Ta=25°C                             | 1       | A                |
| Peak Surge Forward Current        | I FSM            | 50Hz sine wave, Non-repetitive 1 cycle peak value, T j=25°C | 30      | A                |
| Current Squared Time              | I <sup>2</sup> t | 1ms≤t<10ms T j=25°C                                         | 4.5     | A <sup>2</sup> s |

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

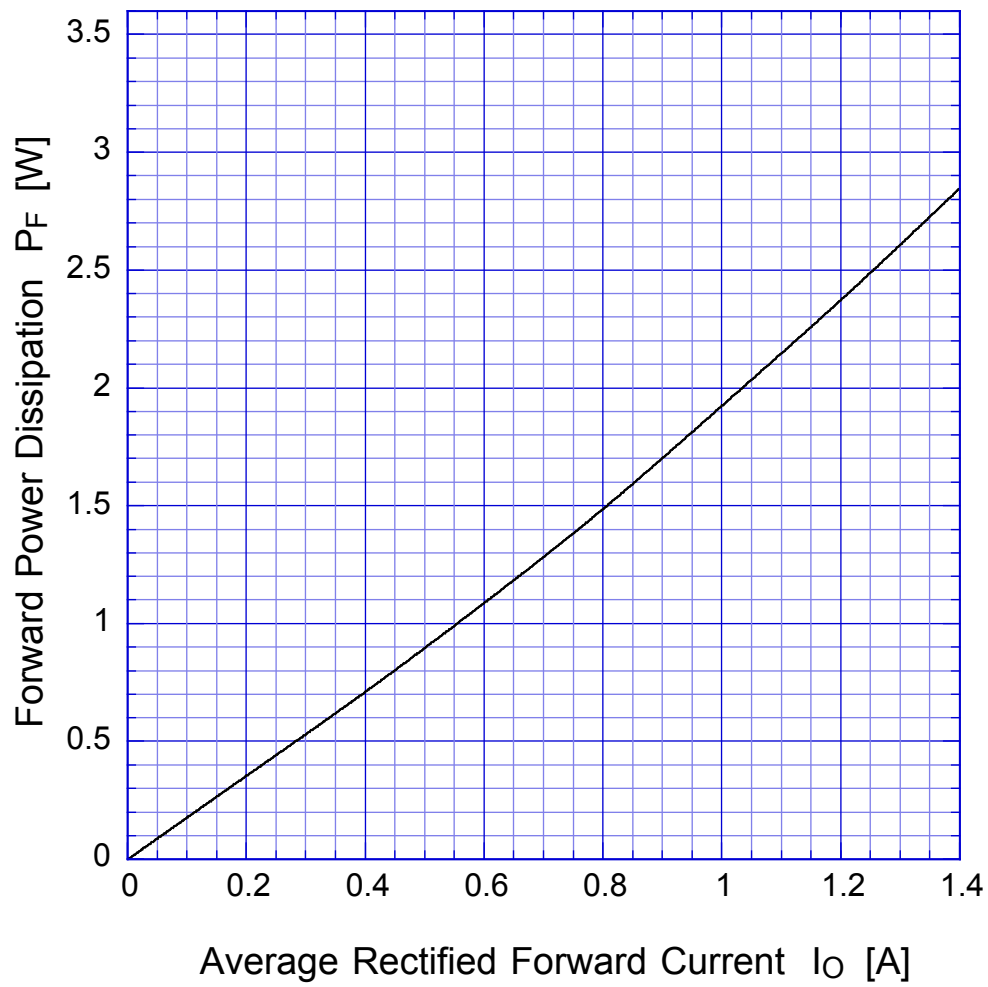
| Item               | Symbol | Conditions                                       | Ratings | Unit |
|--------------------|--------|--------------------------------------------------|---------|------|
| Forward Voltage    | V F    | I F=0.5A, Pulse measurement, Rating of per diode | Max.1.0 | V    |
|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

S1WB(A)x

Forward Voltage



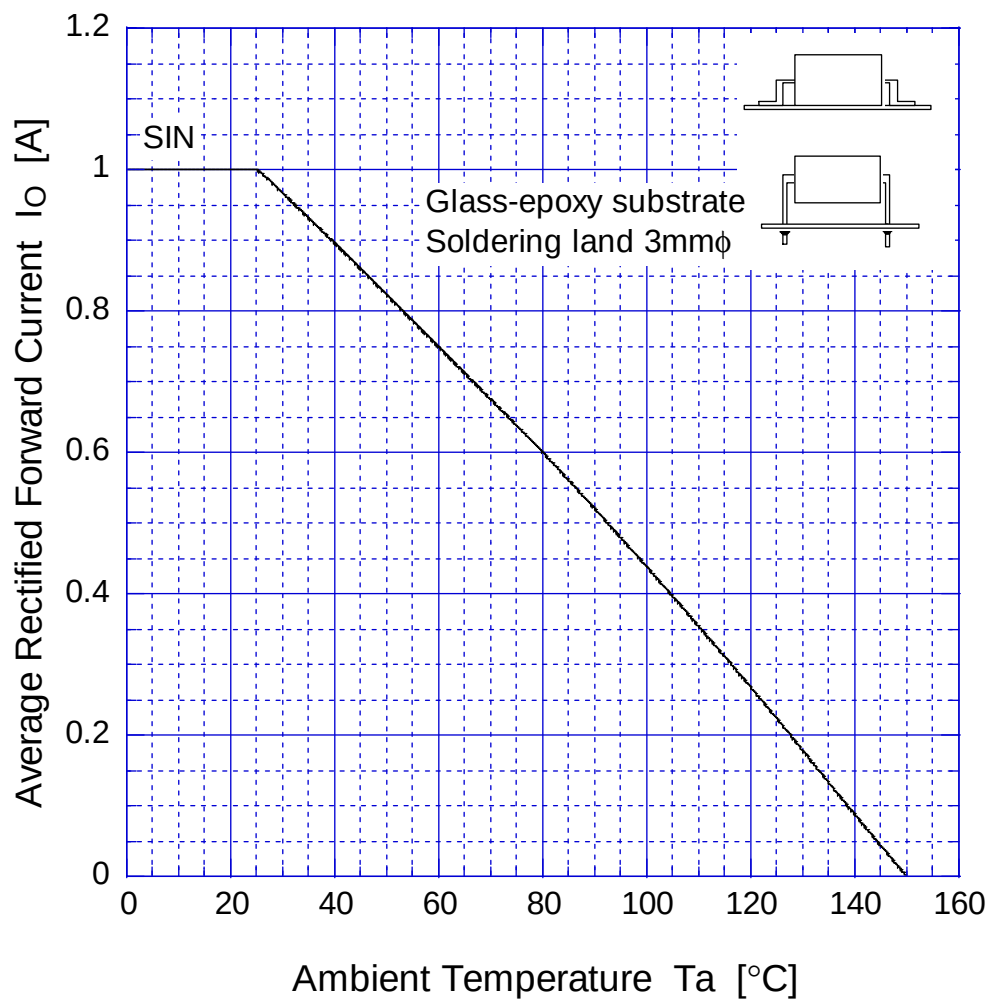
## S1WB(A)x    Forward Power Dissipation



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

S1WB(A)x

Derating Curve



Sine wave

R-load

Free in air

S1WB(A)x

Peak Surge Forward Capability

