

# SHINDENGEN

## General Purpose Rectifiers

## SMT Bridges

# S1WB(A)60

## 600V 1A

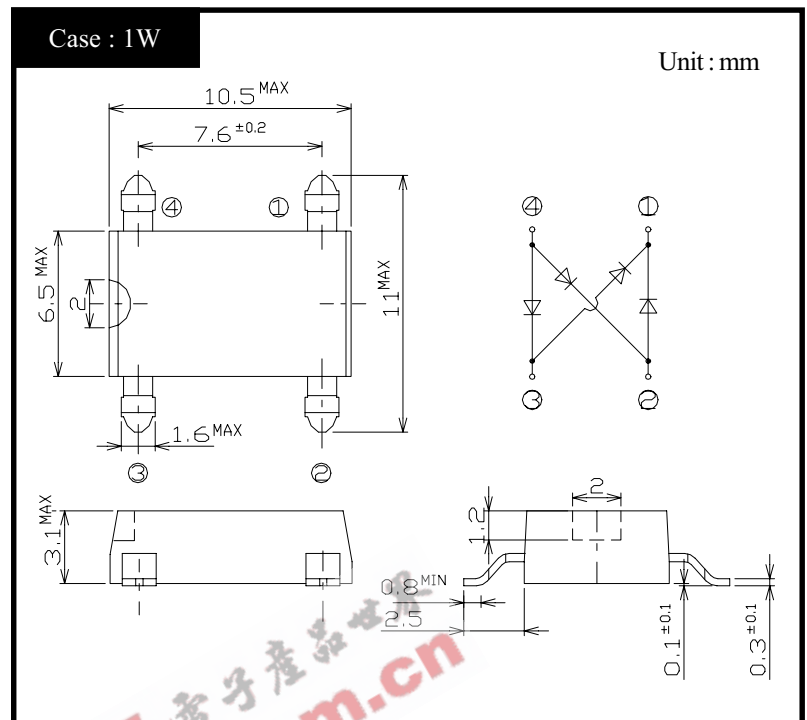
### FEATURES

- Small SMT
- High IFSM
- Applicable to Automatic Insertion

### APPLICATION

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

### OUTLINE DIMENSIONS



### RATINGS

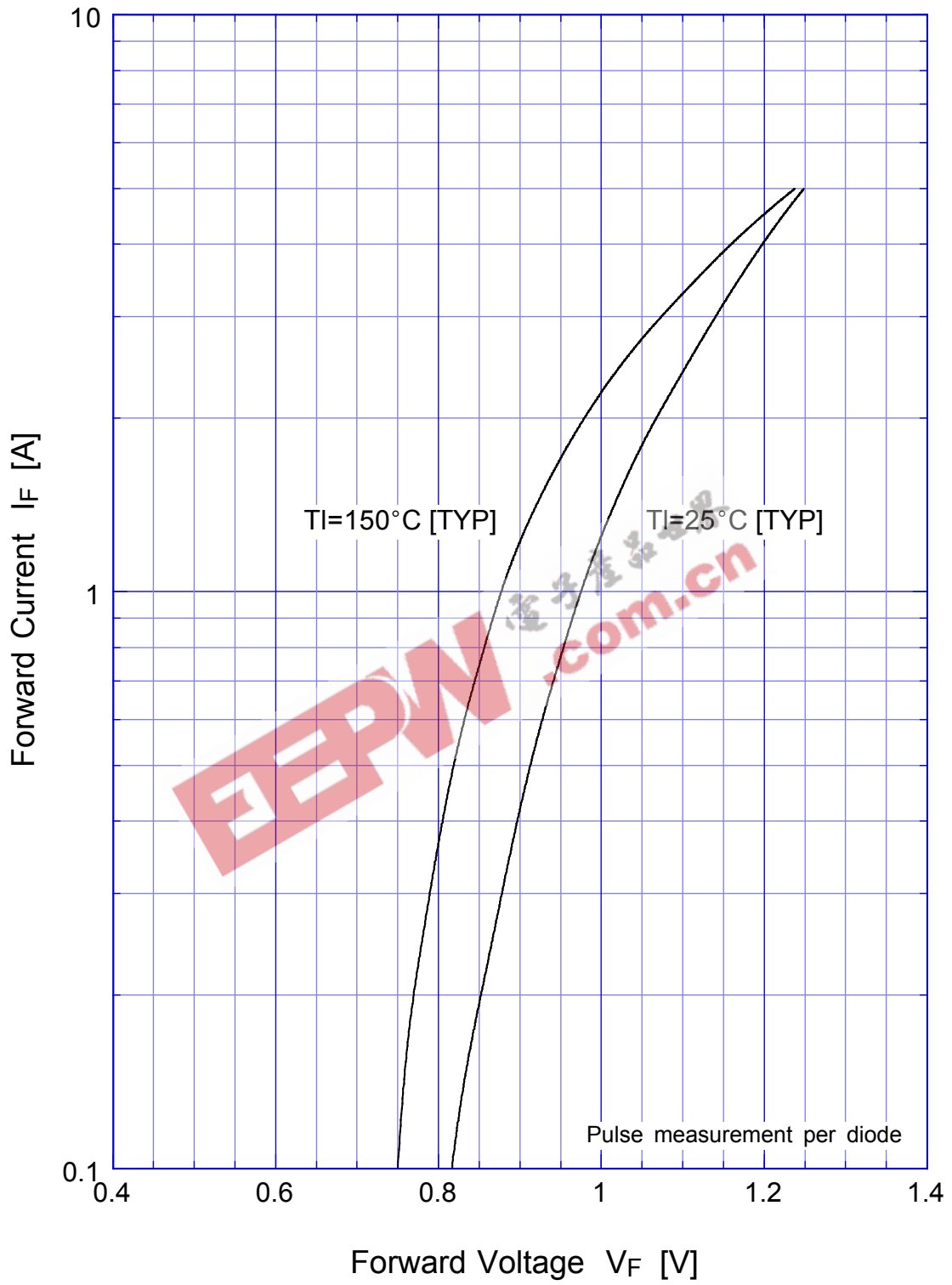
#### ● Absolute Maximum Ratings (If not specified $T_I=25^{\circ}\text{C}$ )

| Item                              | Symbol    | Conditions  | Ratings | Unit                 |
|-----------------------------------|-----------|---|---------|----------------------|
| Storage Temperature               | $T_{stg}$ |   | -40~150 | $^{\circ}\text{C}$   |
| Operating Junction Temperature    | $T_j$     |   | 150     | $^{\circ}\text{C}$   |
| Maximum Reverse Voltage           | $V_{RM}$  |   | 600     | V                    |
| Average Rectified Forward Current | $I_O$     | 50Hz sine wave, R-load, $T_a=25^{\circ}\text{C}$                            | 1       | A                    |
| Peak Surge Forward Current        | $I_{FSM}$ | 50Hz sine wave, Non-repetitive 1 cycle peak value, $T_j=25^{\circ}\text{C}$ | 30      | A                    |
| Current Squared Time              | $I^2t$    | $1\text{ms} \leq t < 10\text{ms}$ $T_j=25^{\circ}\text{C}$                  | 4.5     | $\text{A}^2\text{s}$ |

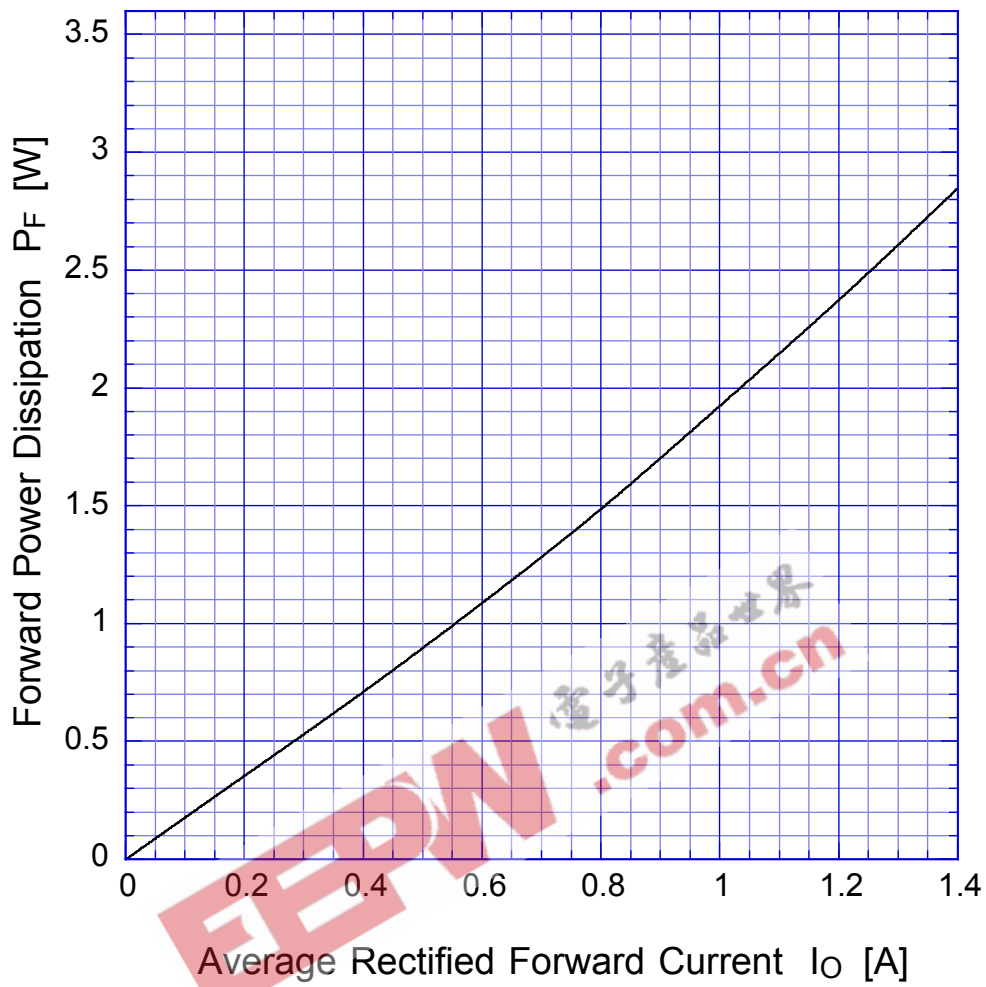
#### ● Electrical Characteristics (If not specified $T_I=25^{\circ}\text{C}$ )

| Item               | Symbol        | Conditions   | Ratings | Unit                        |
|--------------------|---------------|--|---------|-----------------------------|
| Forward Voltage    | $V_F$         | $I_F=0.5\text{A}$ , 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  | $\mu\text{A}$               |
| Thermal Resistance | $\theta_{jl}$ | junction to lead   | Max.10  | $^{\circ}\text{C}/\text{W}$ |
|                    | $\theta_{ja}$ | junction to ambient  | Max.65  |                             |

S1WB(A)x Forward Voltage



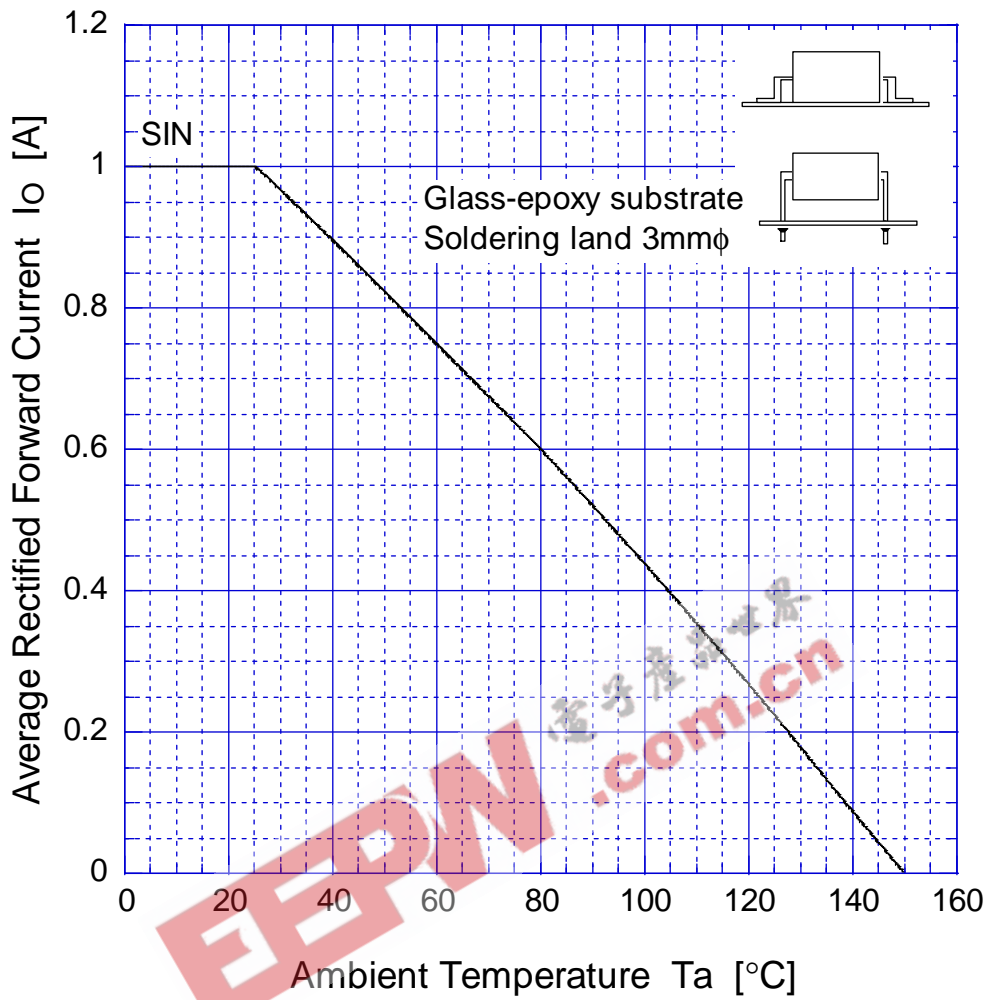
## S1WB(A)x Forward Power Dissipation



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

# S1WB(A)x

# Derating Curve



Sine wave  
R-load  
Free in air

S1WB(A)x

Peak Surge Forward Capability

