

# SHINDENGEN

## General Purpose Rectifiers

## SIL Bridges

# D2SBA60

## 600V 1.5A

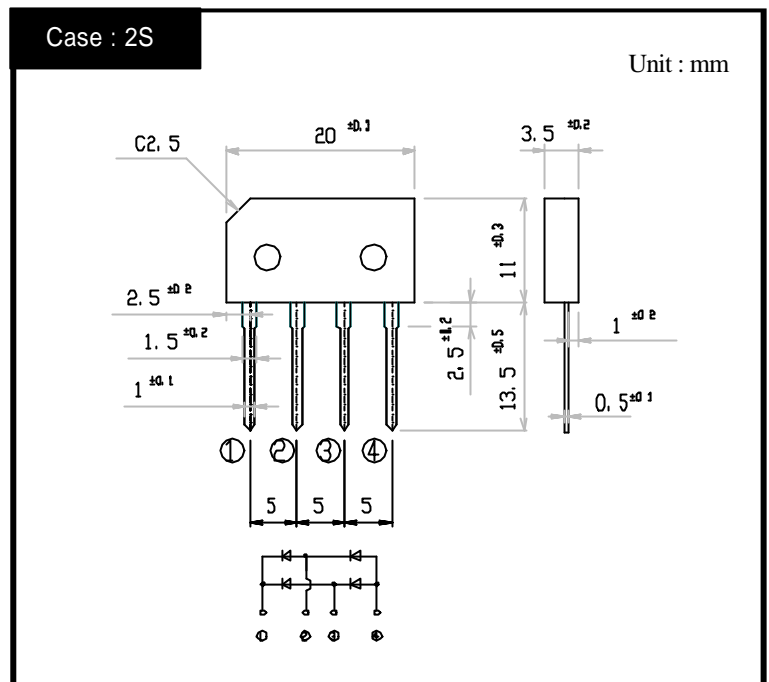
### FEATURES

- Thin Single In-Line Package
- 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 )

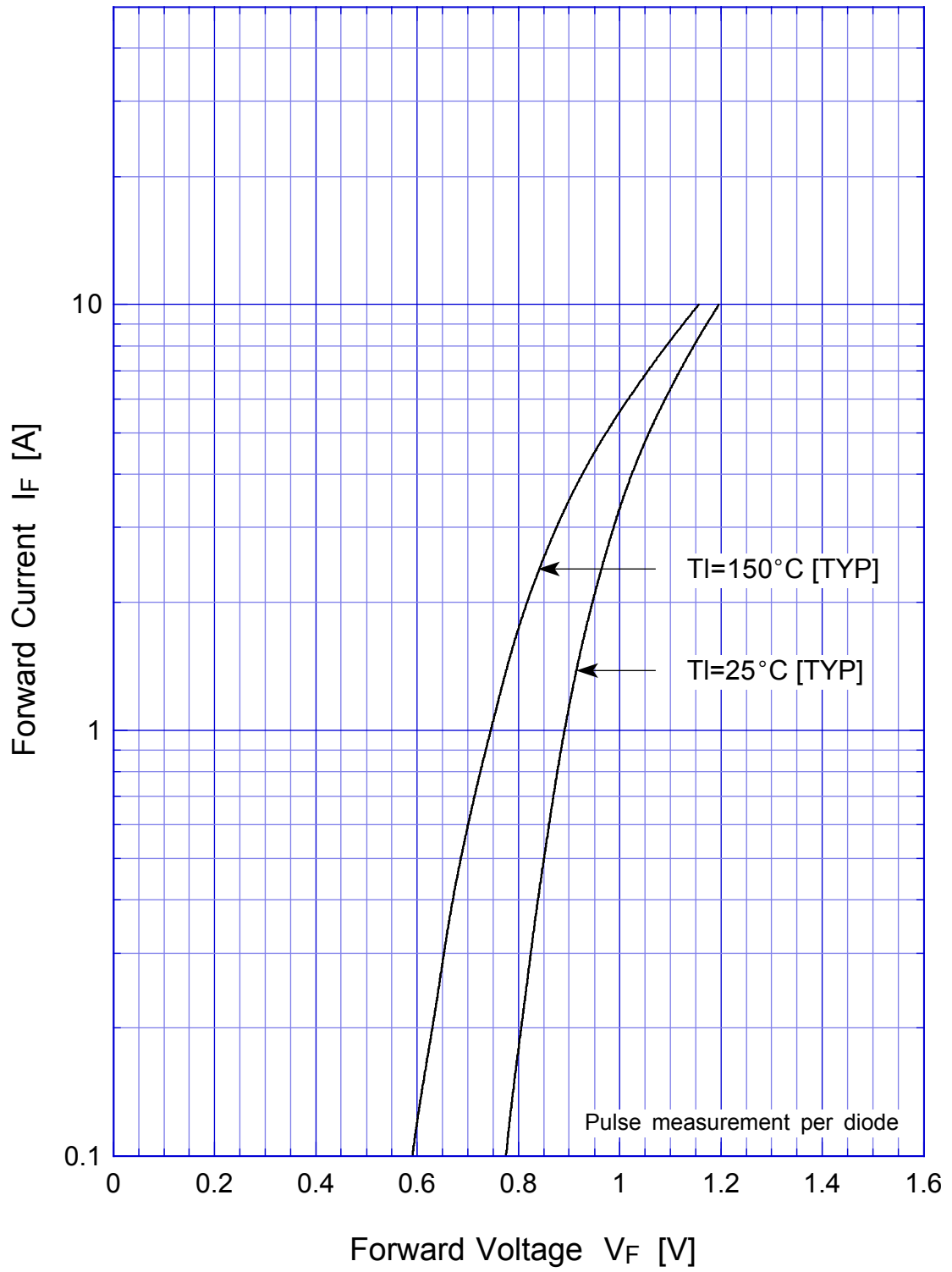
| Item                              | Symbol           | Conditions  | Ratings   | Unit             |
|-----------------------------------|------------------|---|-----------|------------------|
| Storage Temperature               | Tstg             |   | -40 ~ 150 |                  |
| Operating Junction Temperature    | Tj               |   | 150       |                  |
| Maximum Reverse Voltage           | V <sub>RM</sub>  |   | 600       | V                |
| Average Rectified Forward Current | I <sub>O</sub>   | 50Hz sine wave, R-load, On glass-epoxy substrate, Ta=25 | 1.5       | A                |
| Peak Surge Forward Current        | I <sub>FSM</sub> | 50Hz sine wave, Non-repetitive 1cycle peak value, Tj=25 | 60        | A                |
| Current Squared Time              | I <sup>2</sup> t | 1ms t < 10ms Tj=25                                      | 16        | A <sup>2</sup> s |

Electrical Characteristics (If not specified Tl=25 )

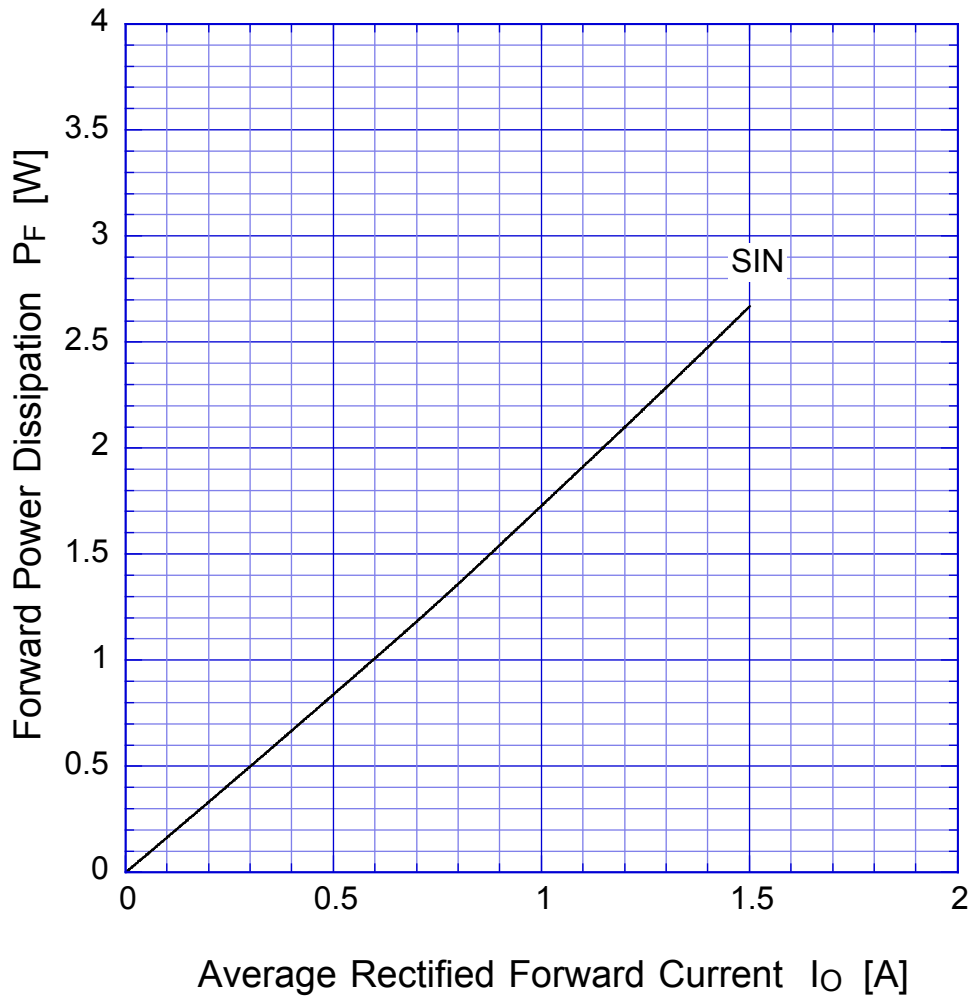
| Item               | Symbol         | Conditions   | Ratings  | Unit |
|--------------------|----------------|--|----------|------|
| Forward Voltage    | V <sub>F</sub> | IF=0.75A, Pulse measurement, Rating of per diode                         | Max.1.05 | V    |
| Reverse Current    | I <sub>R</sub> | V <sub>R</sub> =V <sub>RM</sub> , Pulse measurement, Rating of per diode | Max.10   | μA   |
| Thermal Resistance | jl             | junction to lead   | Max.10   | /W   |
|                    | ja             | junction to ambient  | Max.47   |      |

# D2SBAx

## Forward Voltage



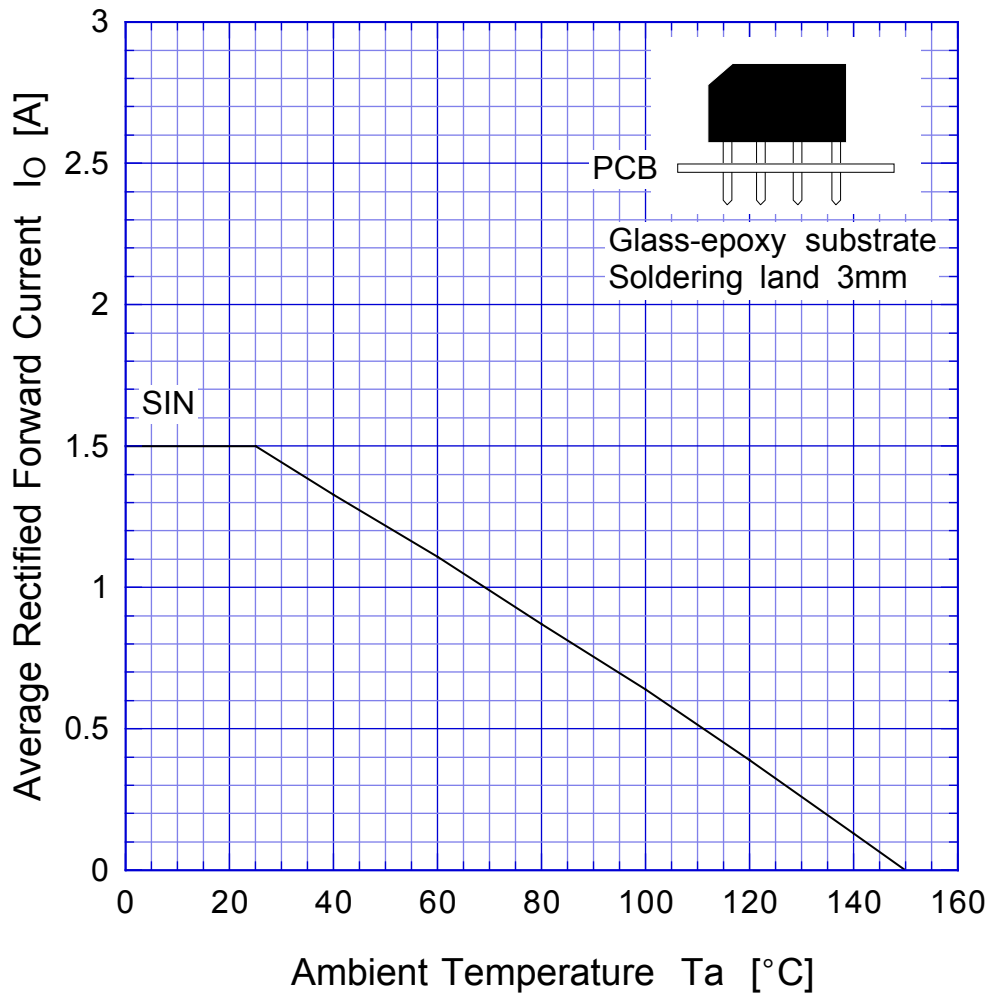
## D2SBAX Forward Power Dissipation



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

# D2SBAx

# Derating Curve



Sine wave  
R-load  
Free in air

# D2SBAx

## Peak Surge Forward Capability

