

# SHINDENGEN

## General Purpose Rectifiers

SIL Bridges

# D2SBA60

## 600V 1.5A

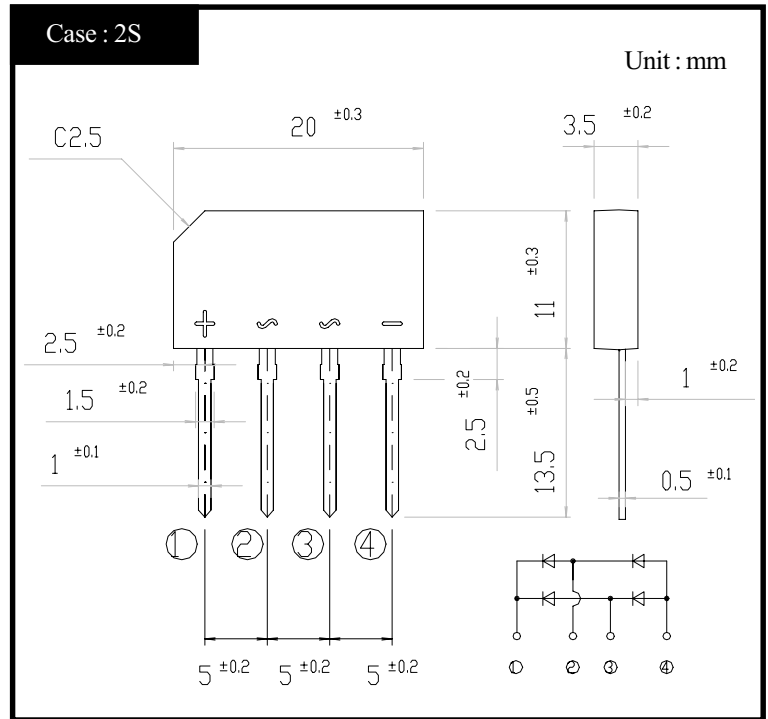
### FEATURES

- 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°C)

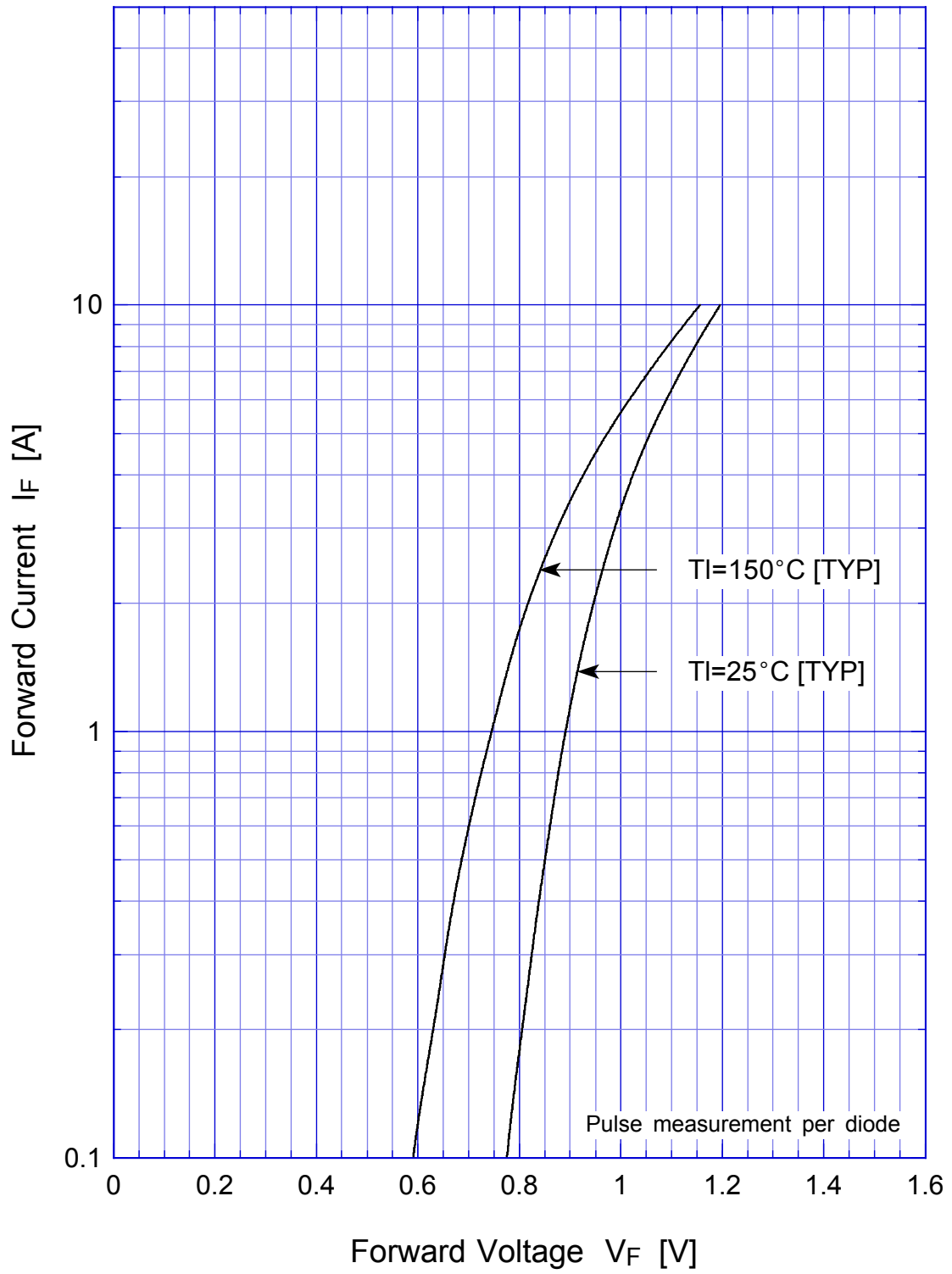
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	T <sub>stg</sub>		-40~150	°C
Operating Junction Temperature	T <sub>j</sub>		150	°C
Maximum Reverse Voltage	V <sub>RM</sub>		600	V
Average Rectified Forward Current	I <sub>O</sub>	50Hz sine wave, R-load, On glass-epoxy substrate, T <sub>a</sub> =25°C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

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

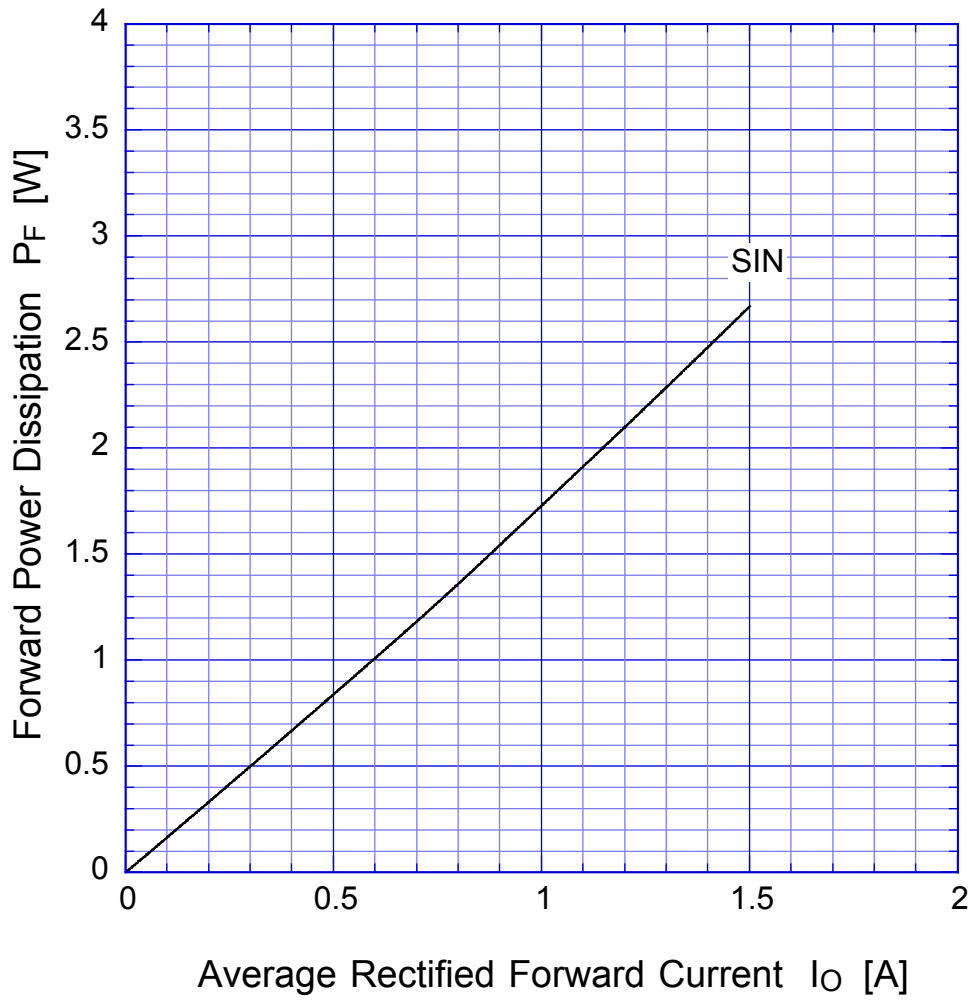
Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> =0.75A, Pulse measurement, Rating of per diode	Max.1.05	V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> =V <sub>RM</sub> , Pulse measurement, Rating of per diode	Max.10	μA
Thermal Resistance	θ <sub>jl</sub>	junction to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

D2SBAx

Forward Voltage



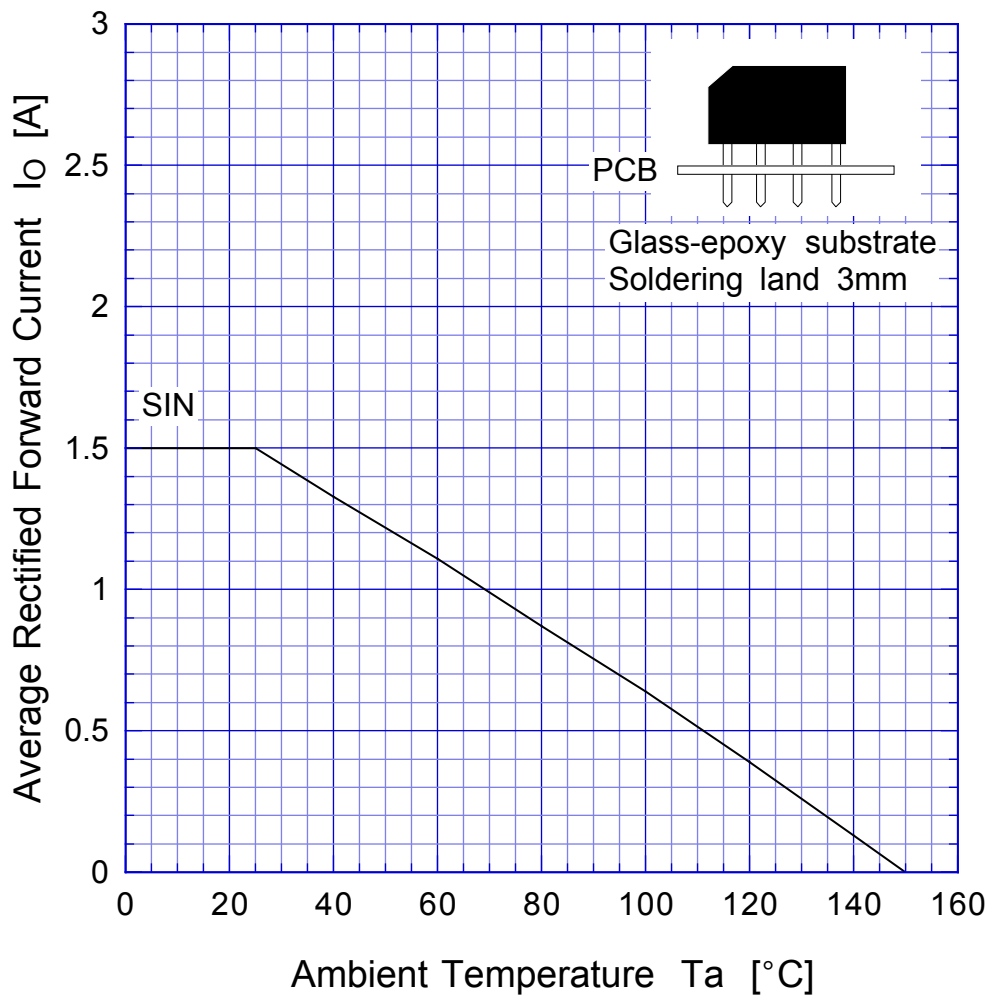
## D2SBAx Forward Power Dissipation



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

# D2SBAx

# Derating Curve



Sine wave  
R-load  
Free in air

# D2SBAx

## Peak Surge Forward Capability

