

# SHINDENGEN

## **General Purpose Rectifiers**

SMT Bridges

# S1WB(A)60B

600V 1A

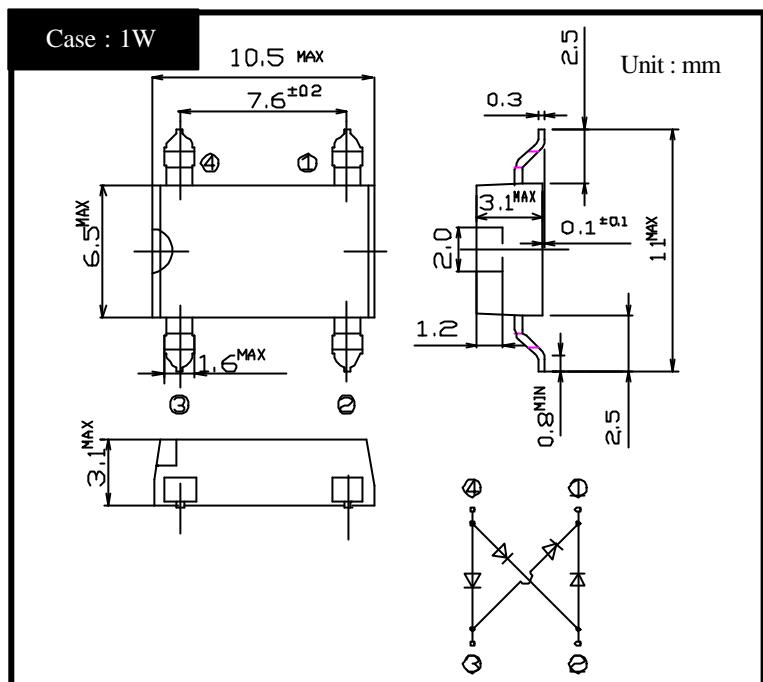
## FEATURES

Small SMT  
High IFSM  
Applicable to Automatic Insertion

## APPLICATION

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

## **OUTLINE DIMENSIONS**



# RATINGS

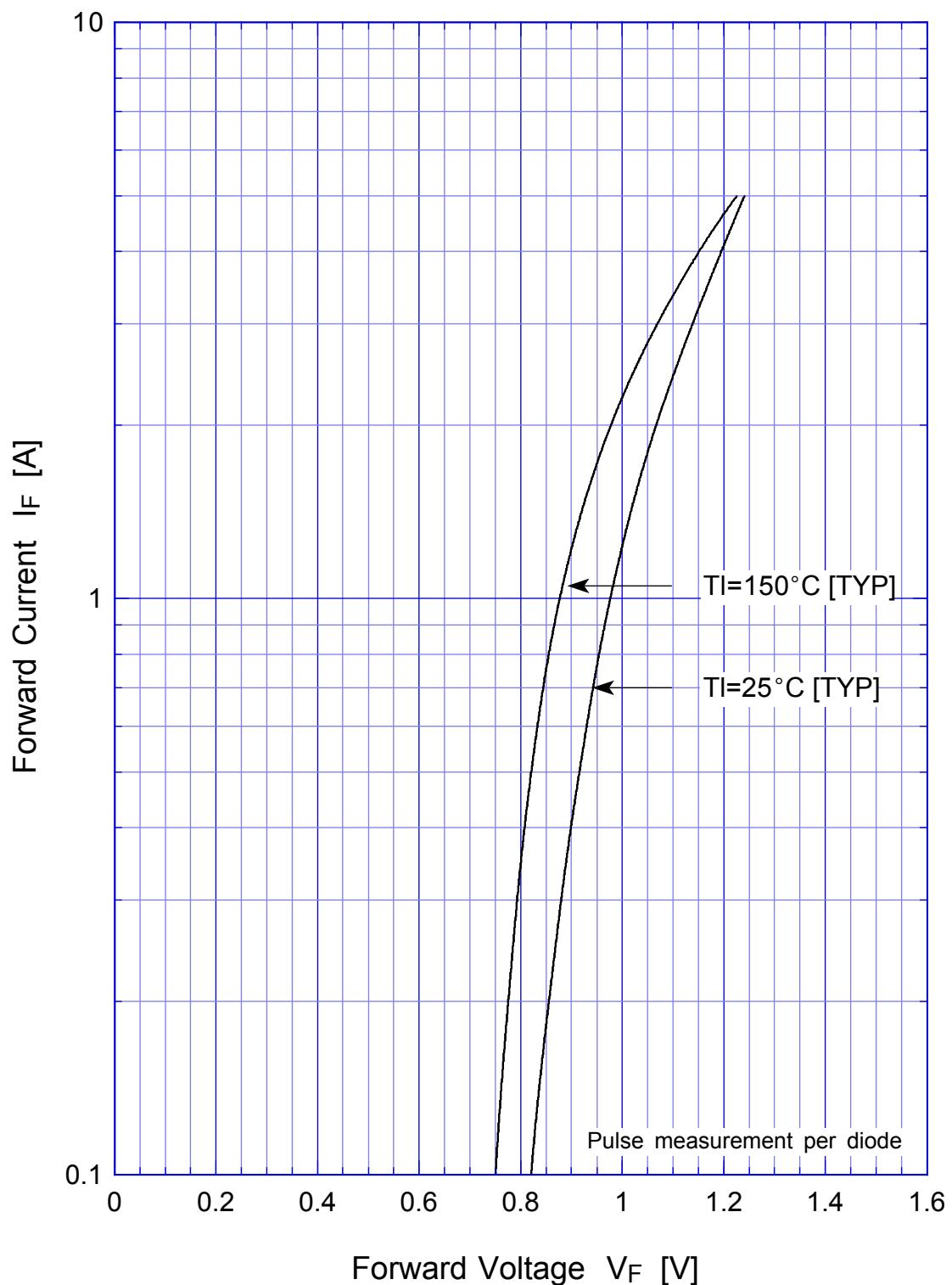
### Absolute Maximum Ratings (If not specified TI=25 °C)

Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	T <sub>STG</sub>		-40 ~ 150	
Operating Junction Temperature	T <sub>J</sub>		150	
Maximum Reverse Voltage	V <sub>RM</sub>		600	V
Average Rectified Forward Current	I <sub>0</sub>	50Hz sine wave, R-load, T <sub>a</sub> =25	1	A
Peak Surge Forward Current	I <sub>FSM</sub>	50Hz sine wave, Non-repetitive 1 cycle peak value, T <sub>J</sub> =25	50	A
Current Squared Time	I <sup>2</sup> t	1ms t < 10ms T <sub>J</sub> =25	16	A <sup>2</sup> s

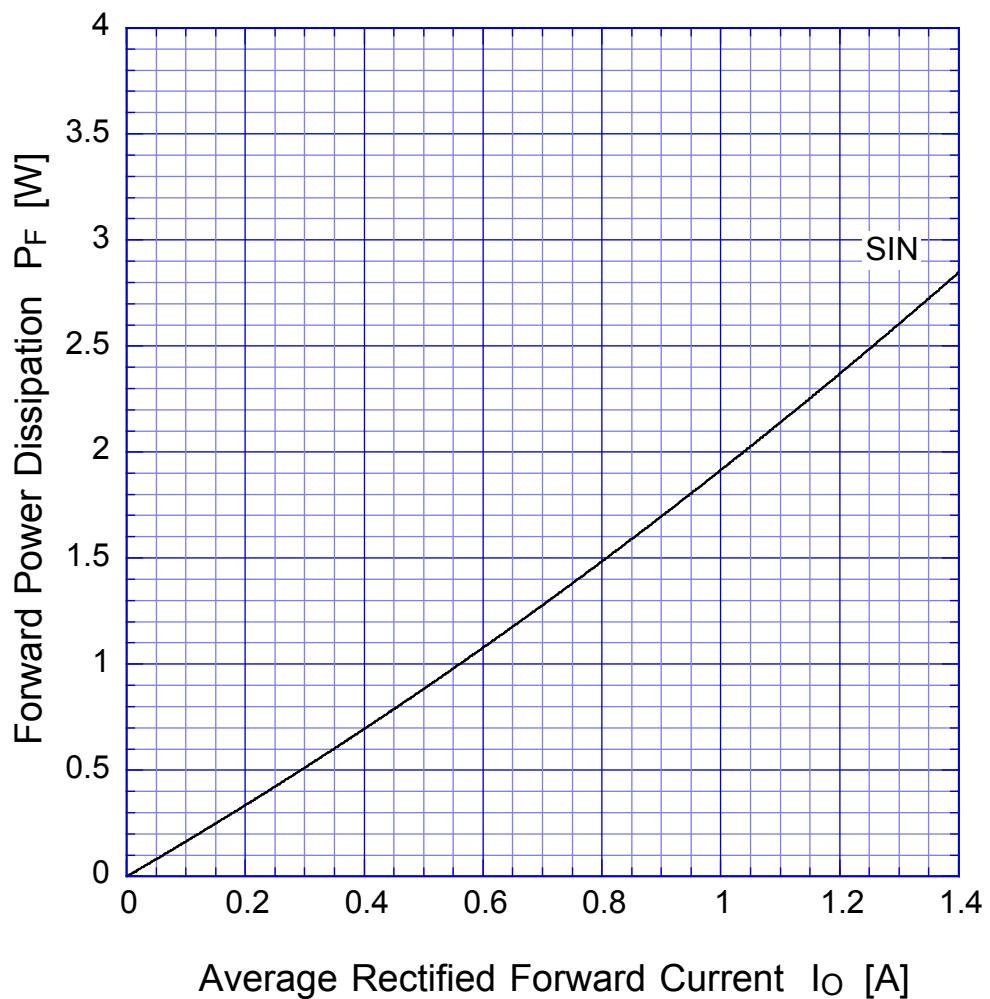
### **Electrical Characteristics (If not specified TI=25 °C)**

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	$\mu A$
Thermal Resistance	$j_l$	junction to lead	Max.10	/W
	$j_a$	junction to ambient	Max.65	

## S1WB(A)60B Forward Voltage

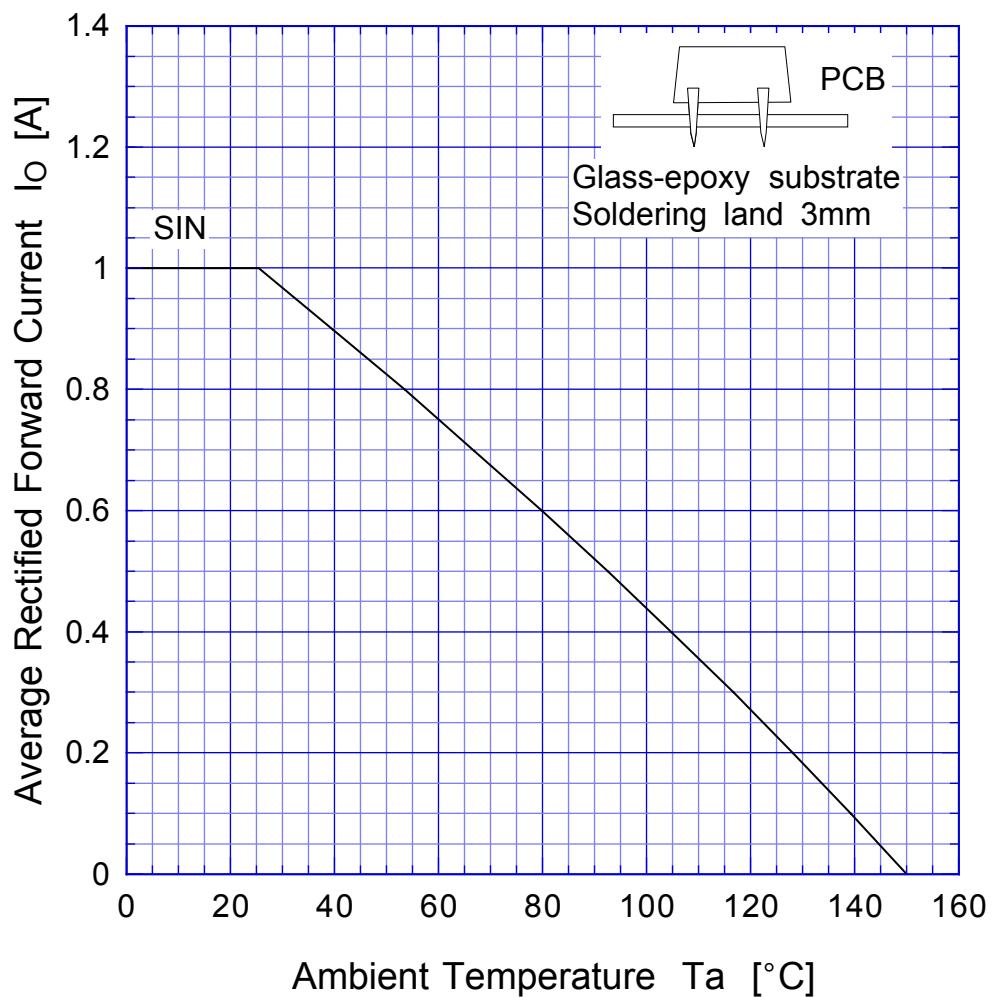


## S1WB(A)60B Forward Power Dissipation



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

## S1WB(A)60B Derating Curve



$$V_R = V_{RM}$$

Sine wave

R-load

Free in air

## S1WB(A)60B Peak Surge Forward Capability

