

# SHINDENGEN

## General Purpose Rectifiers

SMT Bridges

# S1NB20

## 200V 1A

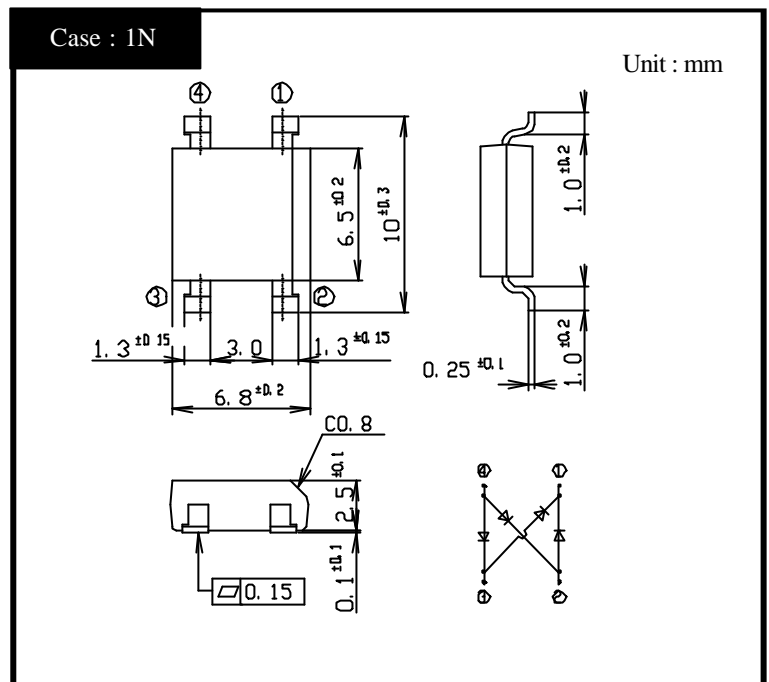
### FEATURES

Small Dual In-Line(:DIL) Package  
5 mm pitch between terminals  
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 )

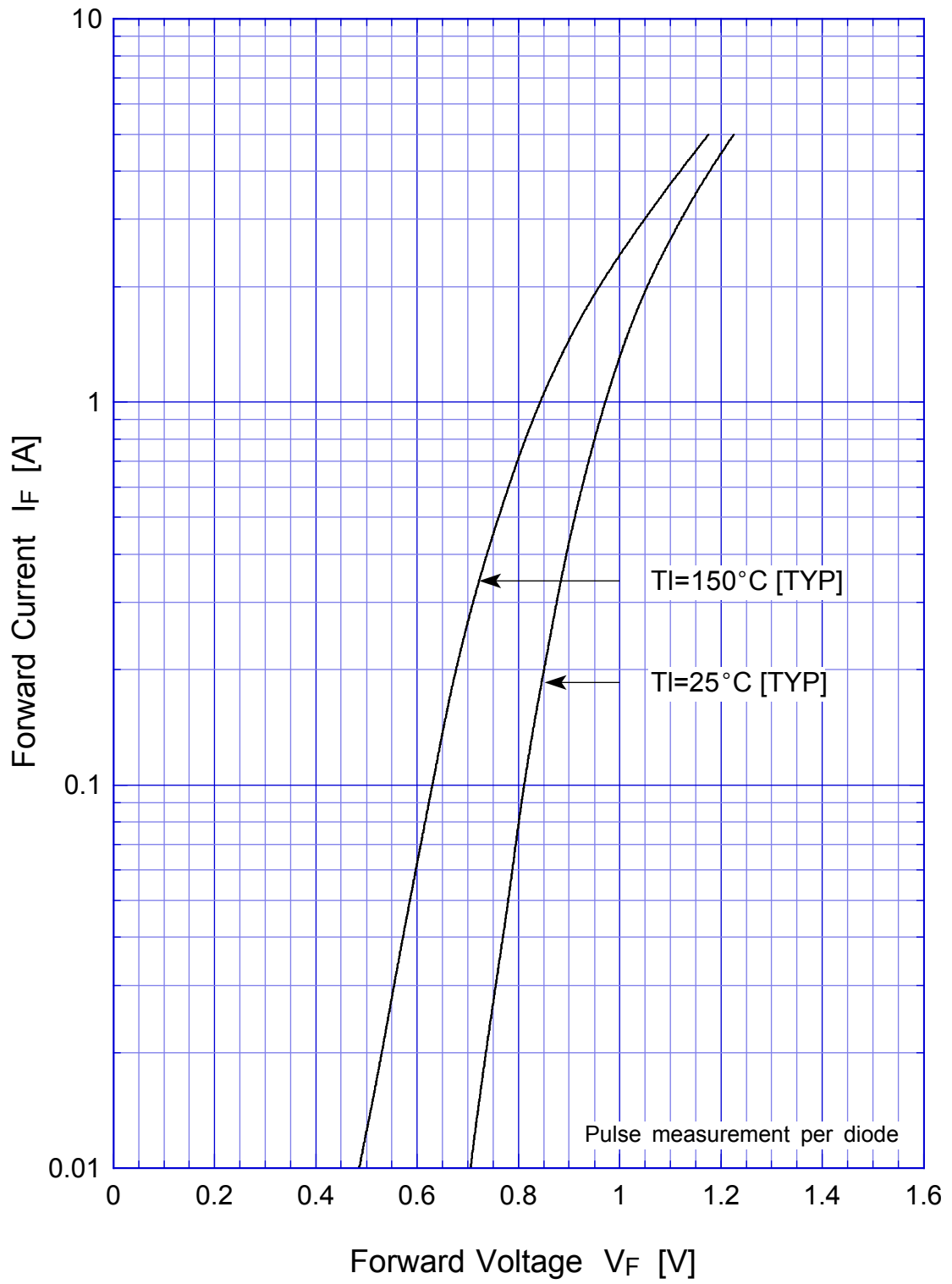
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-40 ~ 150	
Operating Junction Temperature	Tj		150	
Maximum Reverse Voltage	V <sub>RM</sub>		200	V
Average Rectified Forward Current	I <sub>o</sub>	50Hz sine wave, R-load, On glass-epoxy substrate, Ta=25	1	A
Peak Surge Forward Current	I <sub>FSM</sub>	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25	30	A
Current Squared Time	I <sup>2</sup> t	1ms t < 10ms Tj=25	4.5	A <sup>2</sup> s

Electrical Characteristics (If not specified Tl=25 )

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> =0.5A, 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	j-l	junction to lead	Max.15	/W
	j-a	junction to ambient	Max.68	

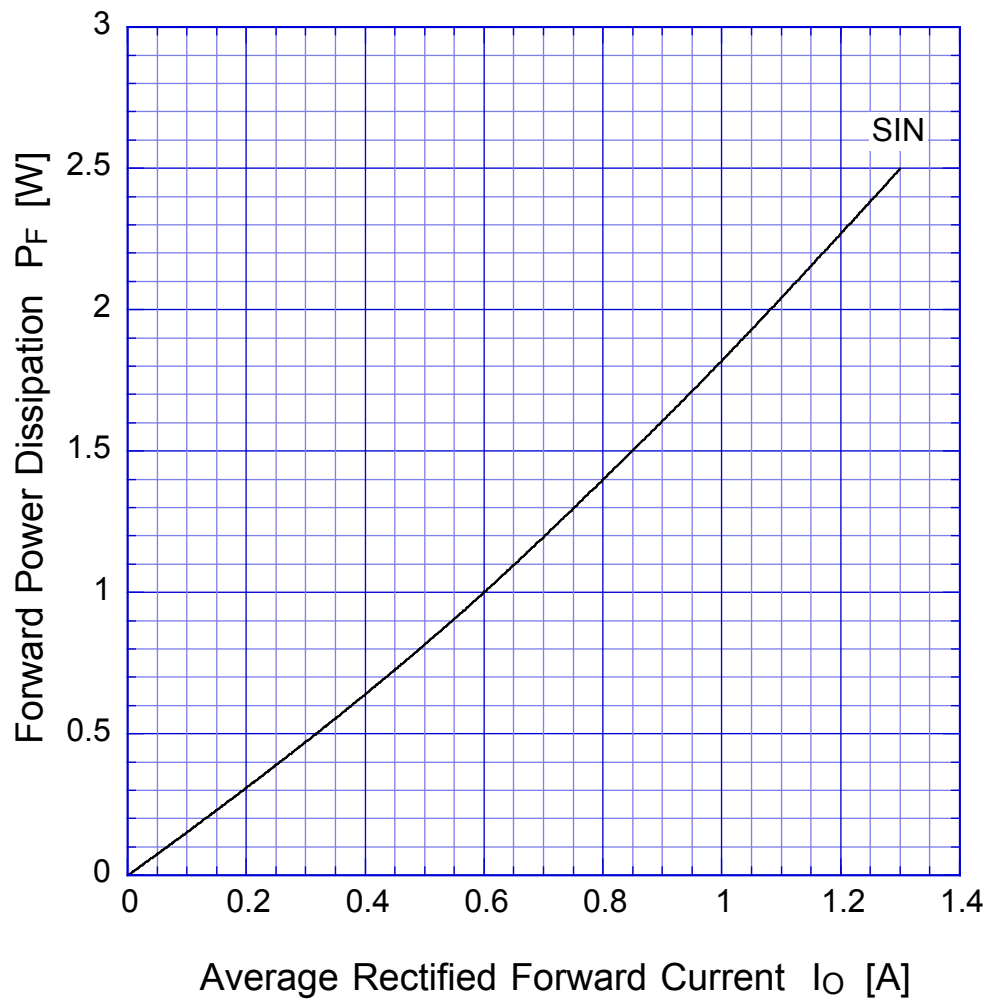
S1NBx

Forward Voltage



S1NBx

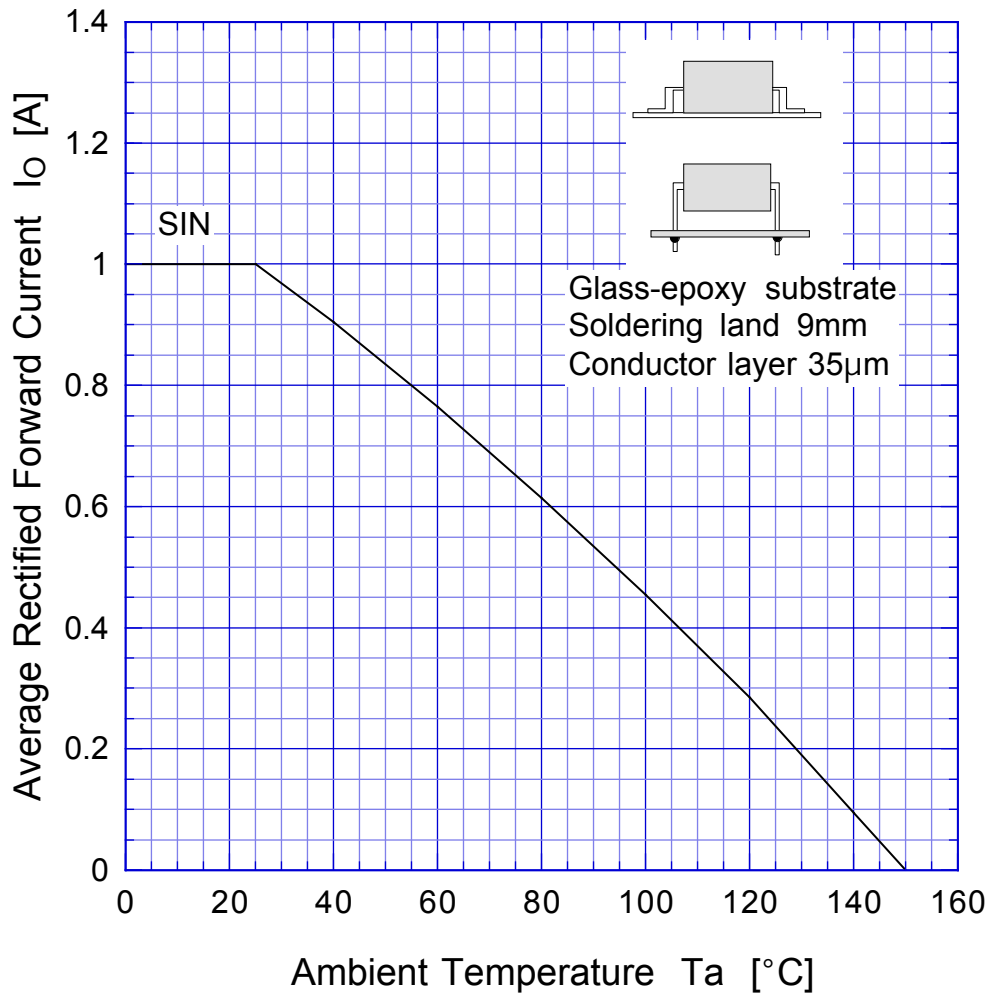
Forward Power Dissipation



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

# S1NBx

# Derating Curve



Sine wave  
R-load  
Free in air

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## Peak Surge Forward Capability

