

# SHINDENGEN

## General Purpose Rectifiers

SMT Bridges

# S1NB80

## 800V 1A

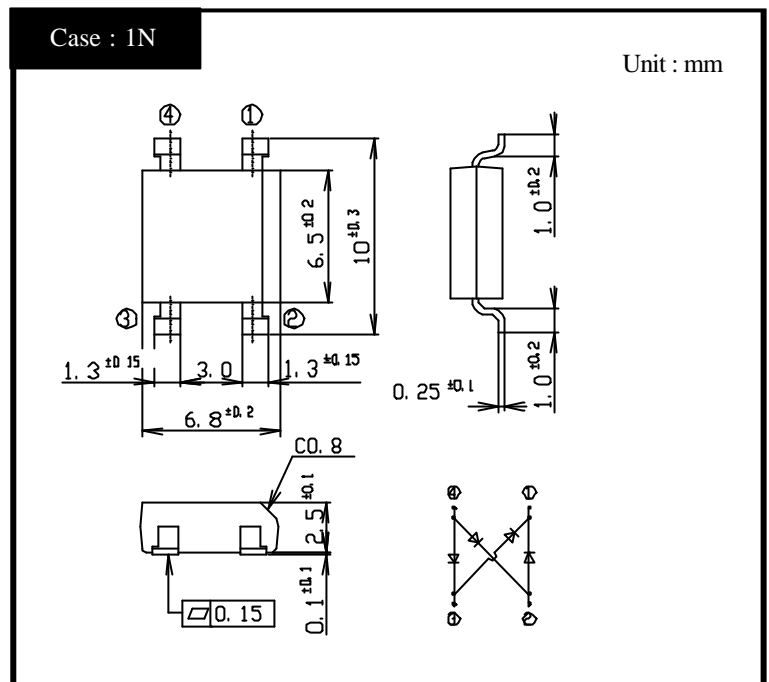
### FEATURES

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  $T_I=25$  )

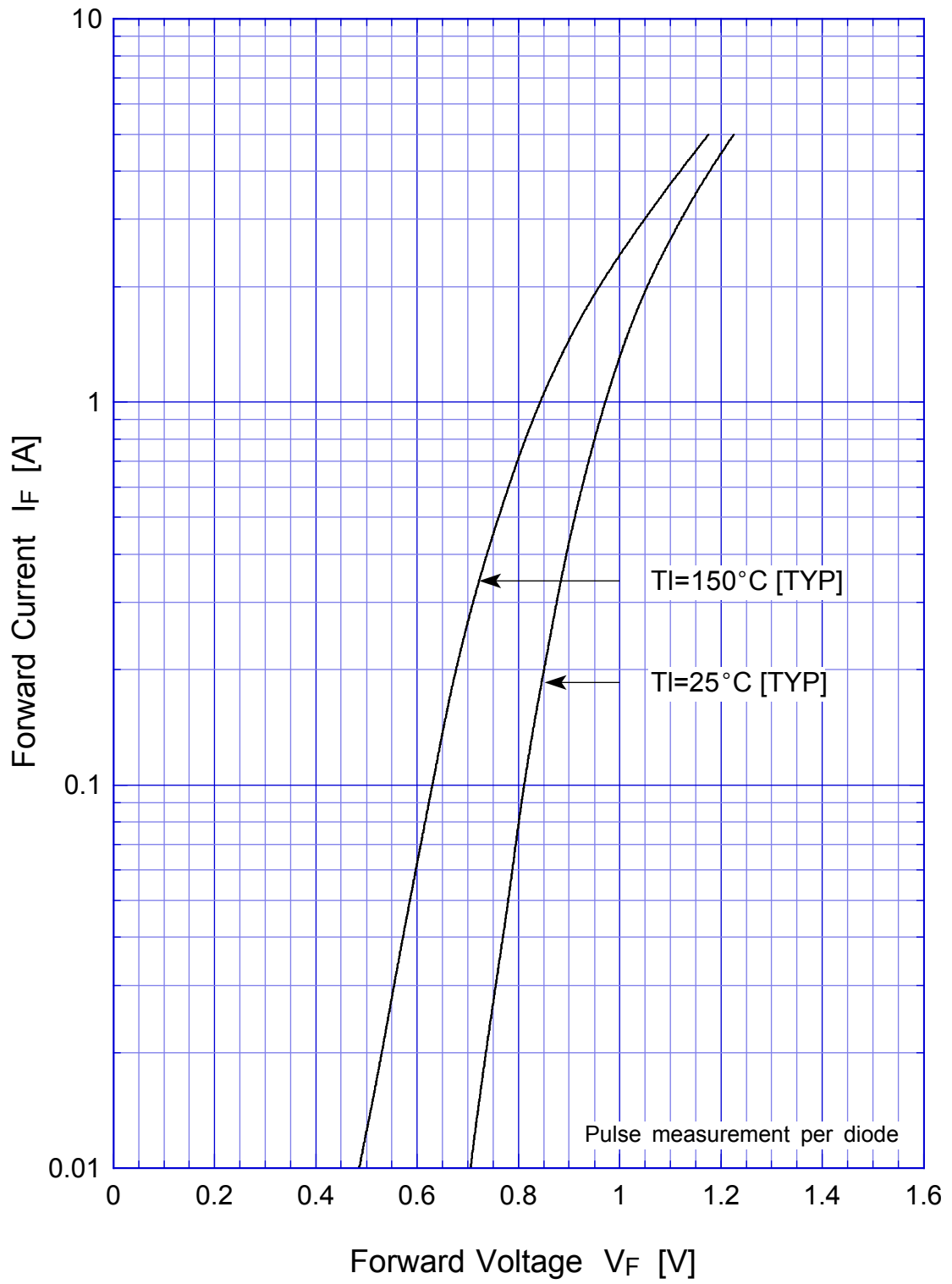
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	$T_{stg}$		-40 ~ 150	
Operating Junction Temperature	$T_j$		150	
Maximum Reverse Voltage	$V_{RM}$		800	V
Average Rectified Forward Current	$I_o$	50Hz sine wave, R-load, On glass-epoxy substrate, $T_a=25$	1	A
Peak Surge Forward Current	$I_{FSM}$	50Hz sine wave, Non-repetitive 1 cycle peak value, $T_j=25$	30	A
Current Squared Time	$I^2t$	1ms $t < 10ms$ $T_j=25$	4.5	A <sup>2</sup> s

Electrical Characteristics (If not specified  $T_I=25$  )

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	$V_F$	$I_F=0.5A$ , Pulse measurement, Rating of per diode	Max.1.05	V
Reverse Current	$I_R$	$V_R=V_{RM}$ , Pulse measurement, Rating of per diode	Max.10	$\mu A$
Thermal Resistance	$\theta_{jl}$	junction to lead	Max.15	/W
	$\theta_{ja}$	junction to ambient	Max.68	

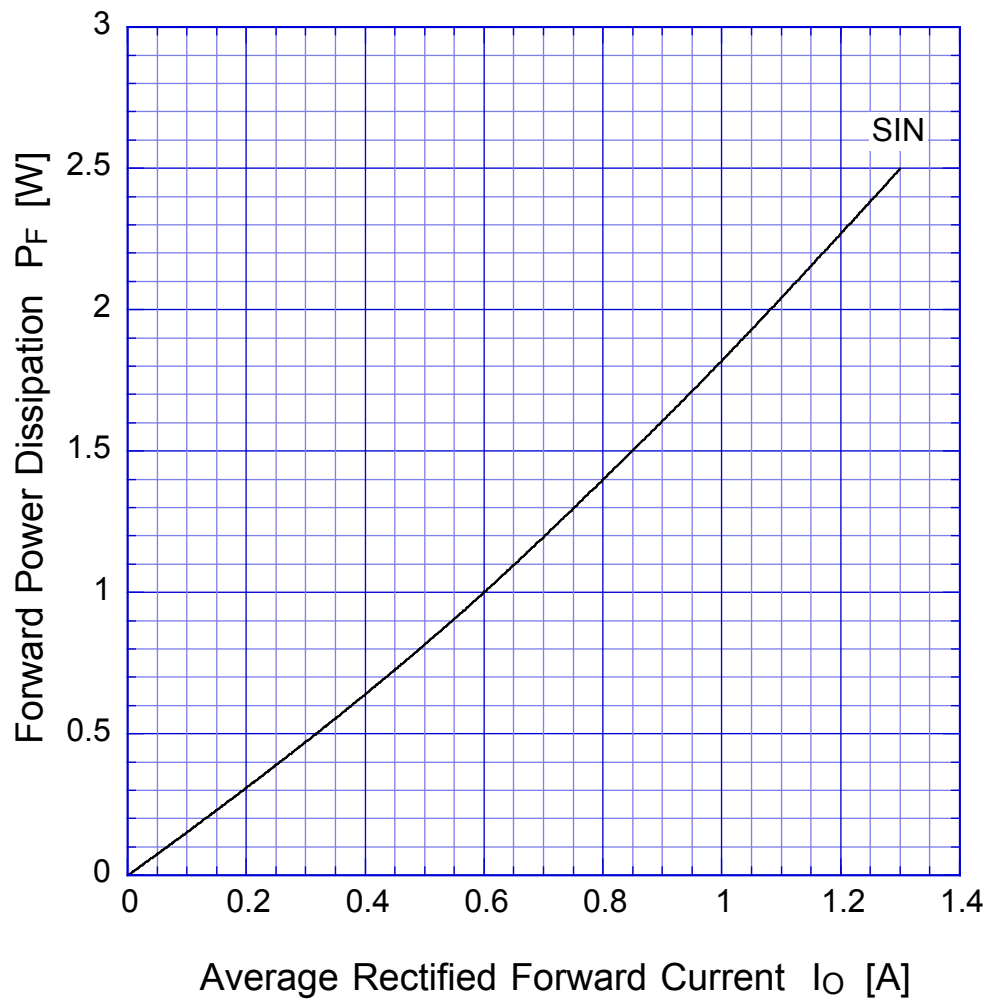
S1NBx

Forward Voltage



S1NBx

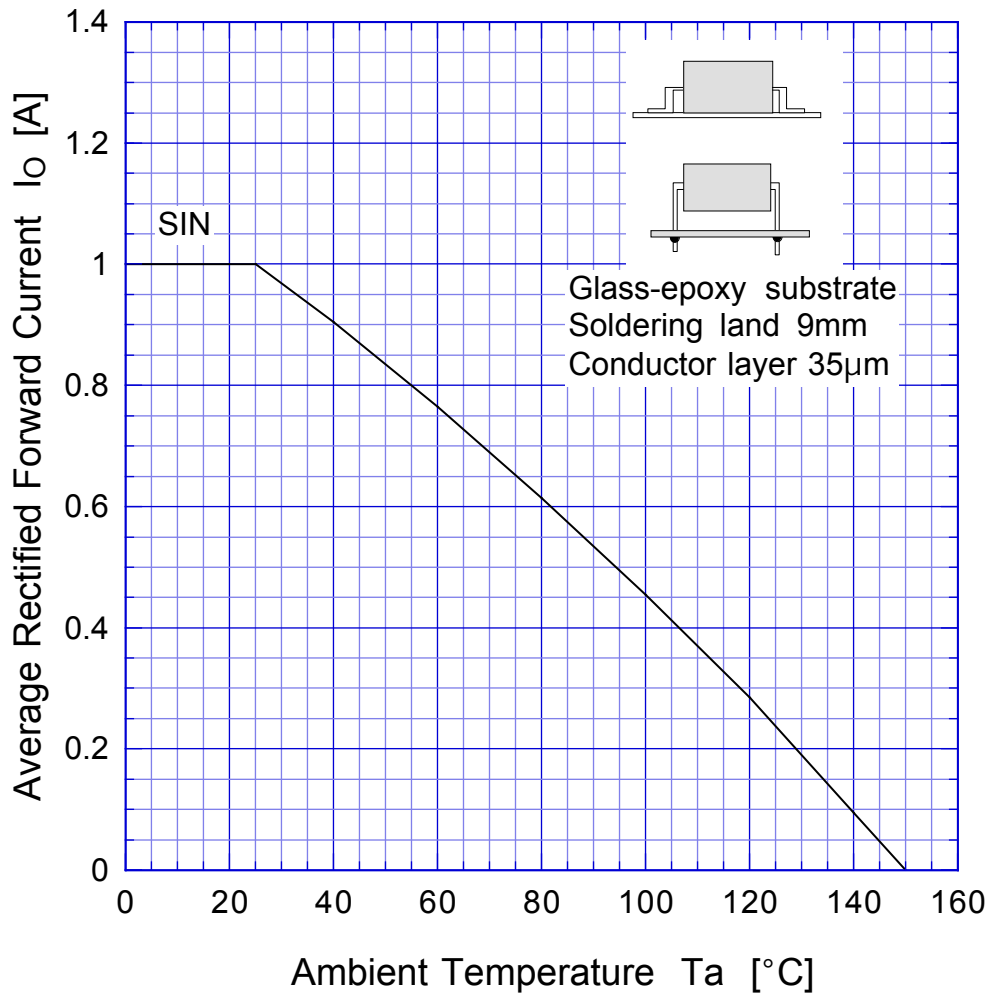
Forward Power Dissipation



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

# S1NBx

## Derating Curve



Sine wave  
R-load  
Free in air

# S1NBx

## Peak Surge Forward Capability

