

SHINDENGEN

General Purpose Rectifiers

SMT Bridges

S1NB20

200V 1A

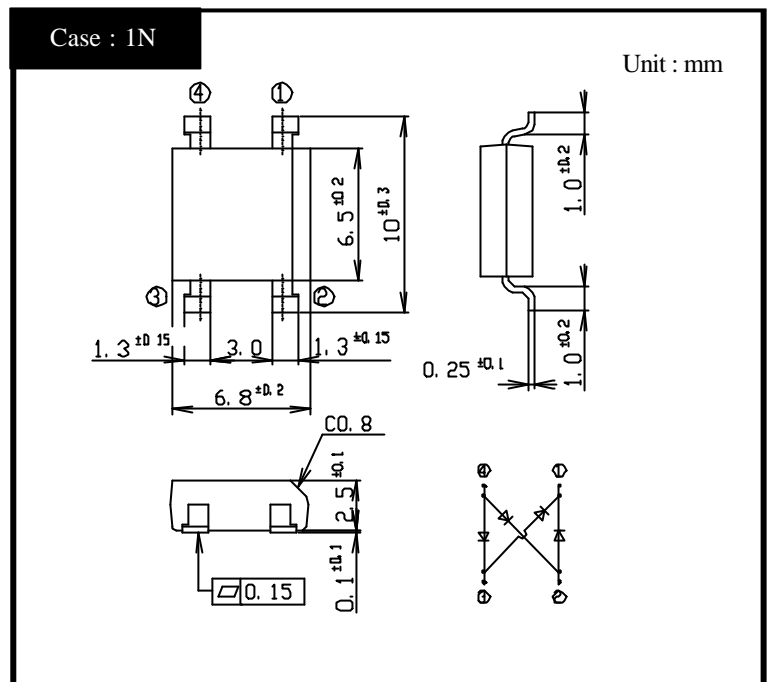
FEATURES

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)

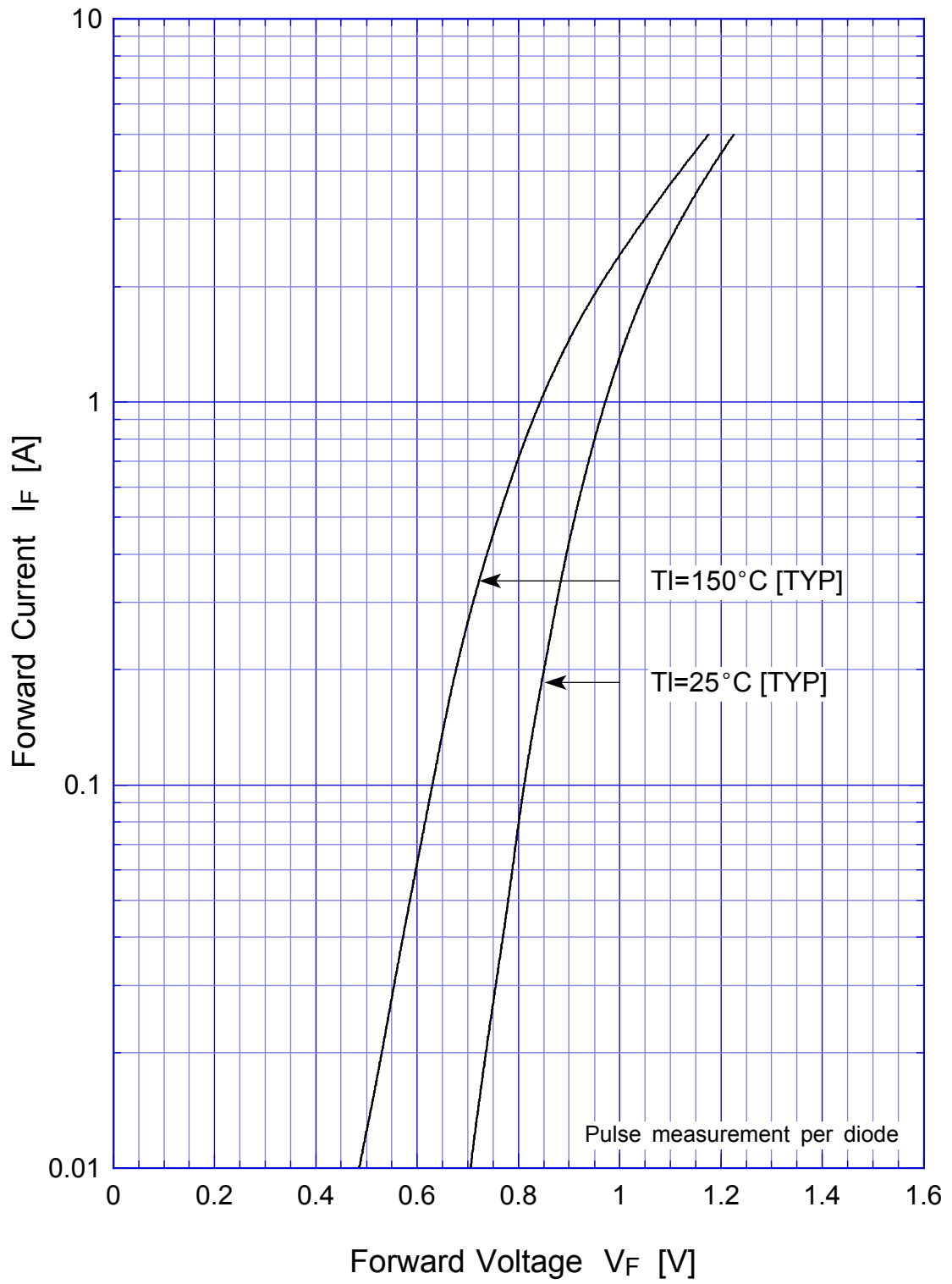
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-40 ~ 150	
Operating Junction Temperature	Tj		150	
Maximum Reverse Voltage	V _{RM}		200	V
Average Rectified Forward Current	I _o	50Hz sine wave, R-load, On glass-epoxy substrate, Ta=25	1	A
Peak Surge Forward Current	I _{FSM}	50Hz sine wave,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

Electrical Characteristics (If not specified Tl=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	μA
Thermal Resistance	j-l	junction to lead	Max.15	/W
	j-a	junction to ambient	Max.68	

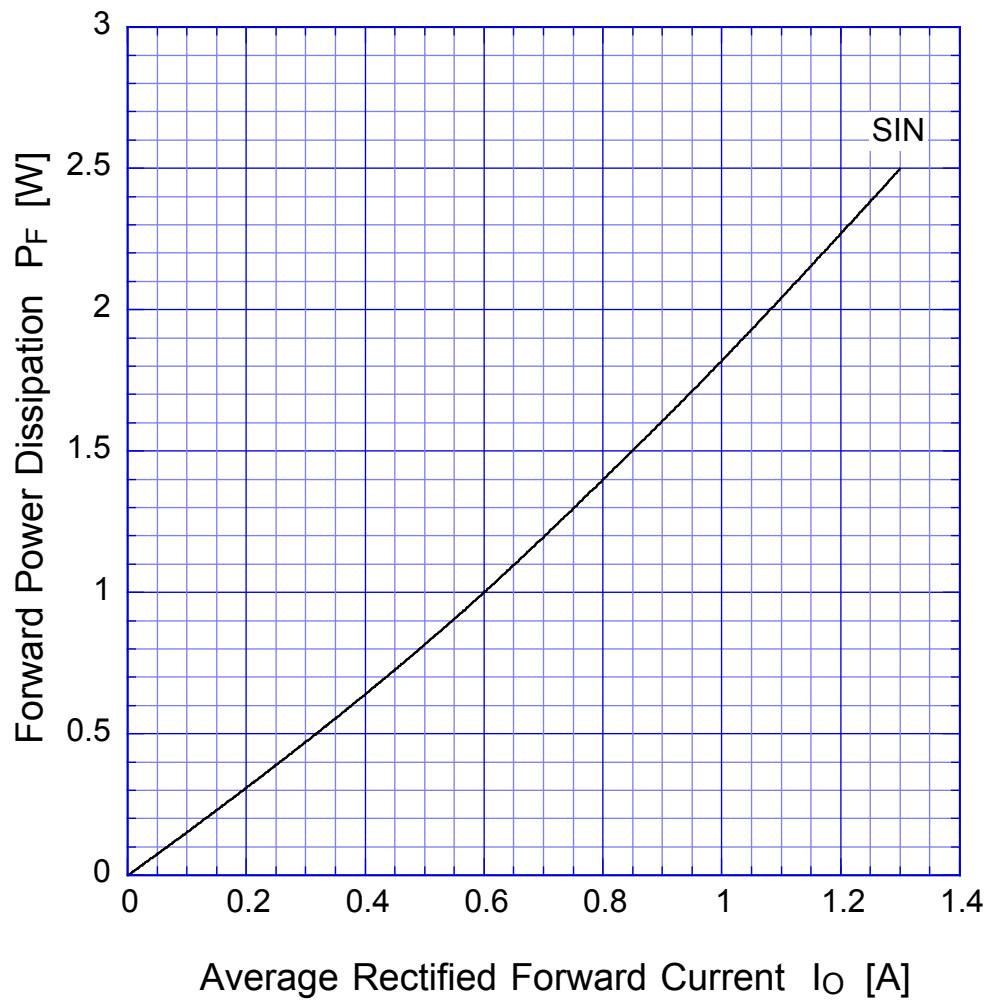
S1NBx

Forward Voltage



S1NBx

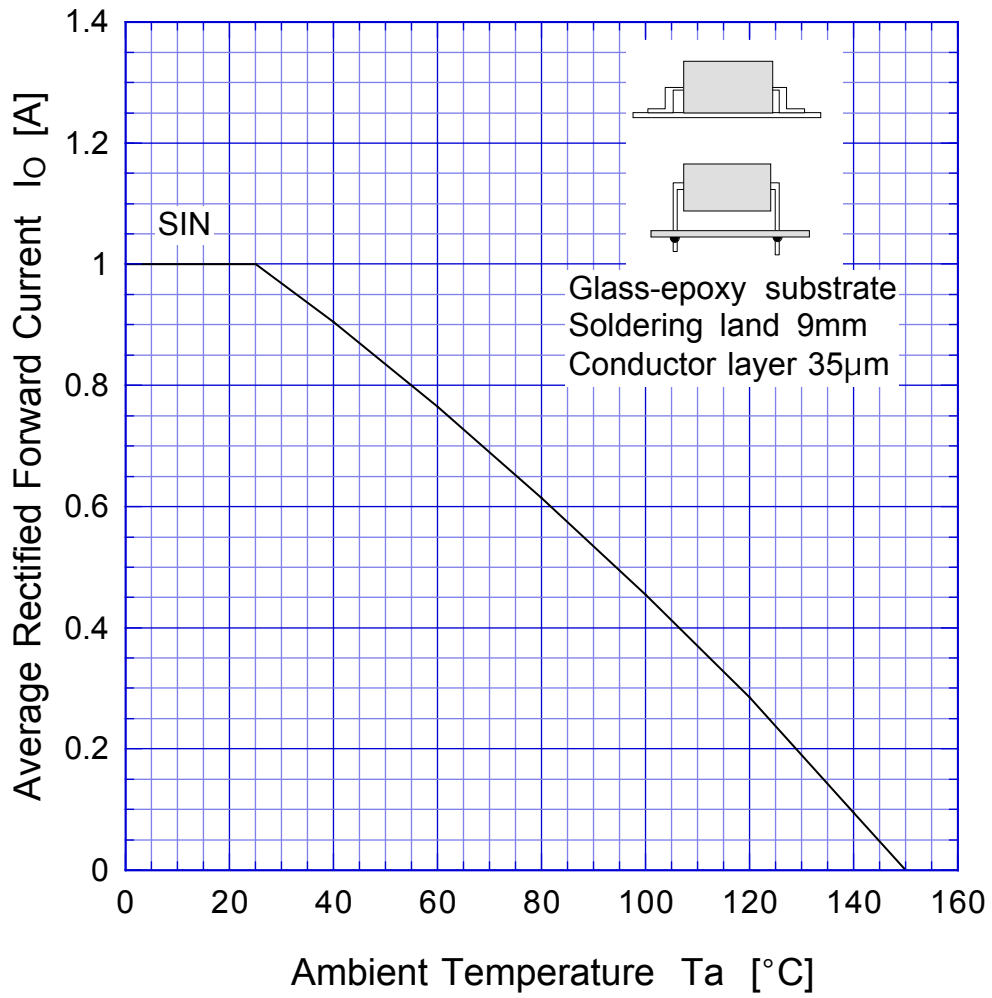
Forward Power Dissipation



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

S1NBx

Derating Curve



Sine wave
R-load
Free in air

S1NBx

Peak Surge Forward Capability

