

S1NB20

200V 1A

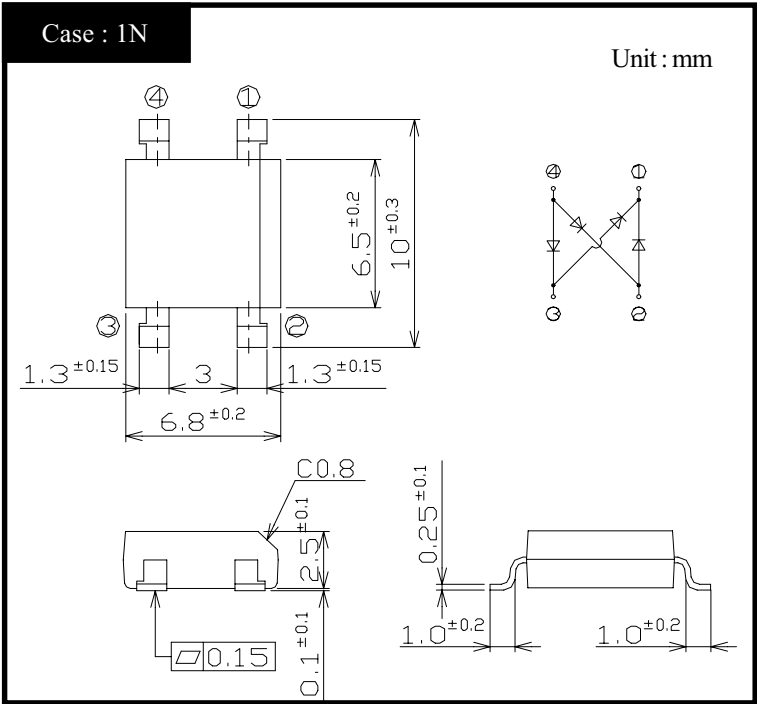
FEATURES

- Small Dual In-Line(:DIL) Package
- 5 mm pitch between terminals
- Applicable to Automatic Insertion

APPLICATION

- Switching power supply
- Home Appliances, Office Equipment
- Telecommuication, Factory Automation

OUTLINE DIMENSIONS



RATINGS

●Absolute Maximum Ratings (If not specified Tl=25°C)

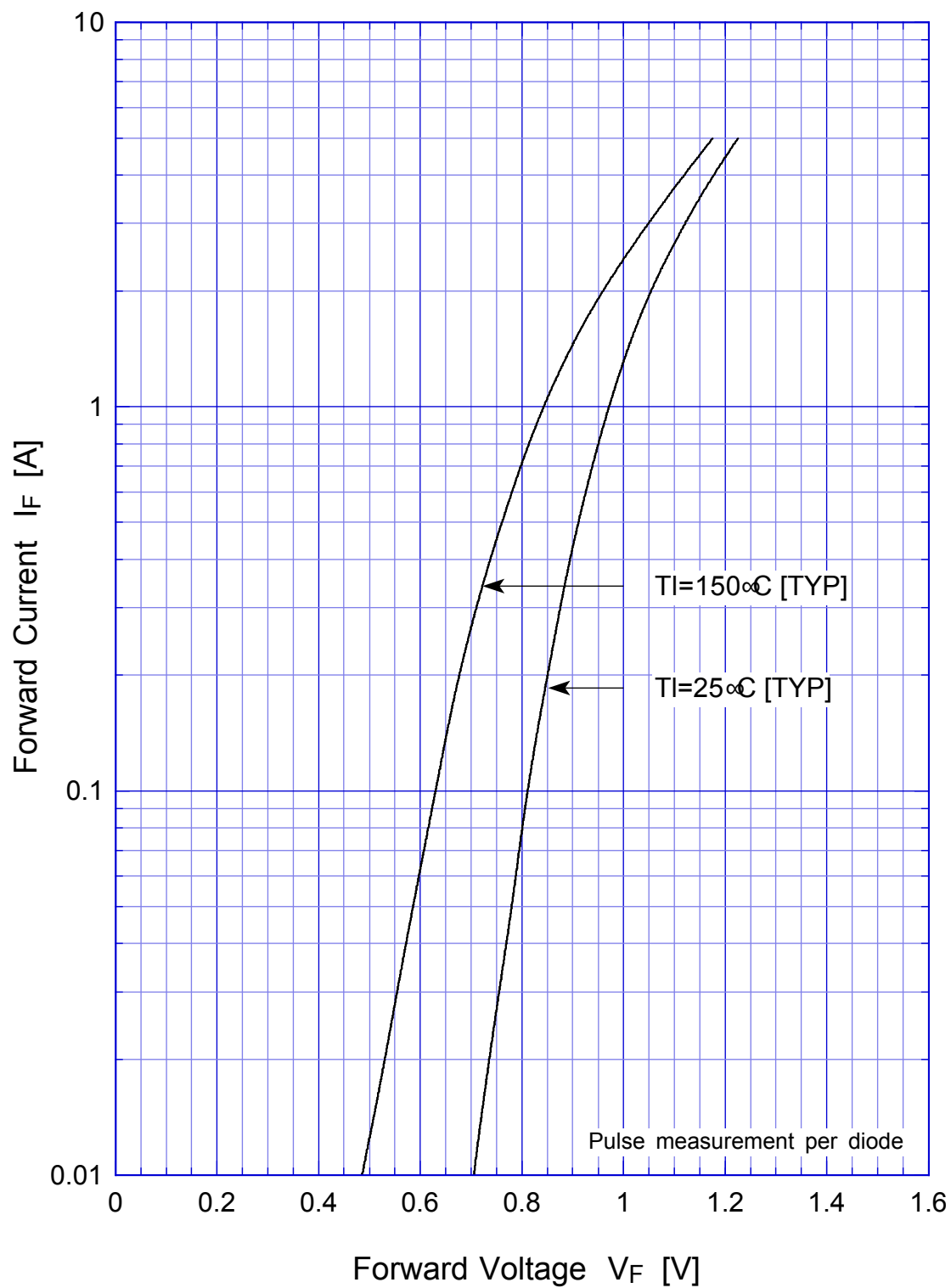
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-40~150	°C
Operating Junction Temperature	Tj		150	°C
Maximum Reverse Voltage	VRM		200	V
Average Rectified Forward Current	Io	50Hz sine wave, R-load, On glass-epoxy substrate, Ta=25°C	1	A
Peak Surge Forward Current	IFSM	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C	30	A
Current Squared Time	I²t	1ms≤t<10ms Tj=25°C	4.5	A²s

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

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	VF	IF=0.5A, Pulse measurement, Rating of per diode	Max.1.05	V
Reverse Current	IR	VR=VRM, Pulse measurement, Rating of per diode	Max.10	μA
Thermal Resistance	θjl	unction to lead	Max.15	°C/W
	θja	unction to ambient	Max.68	

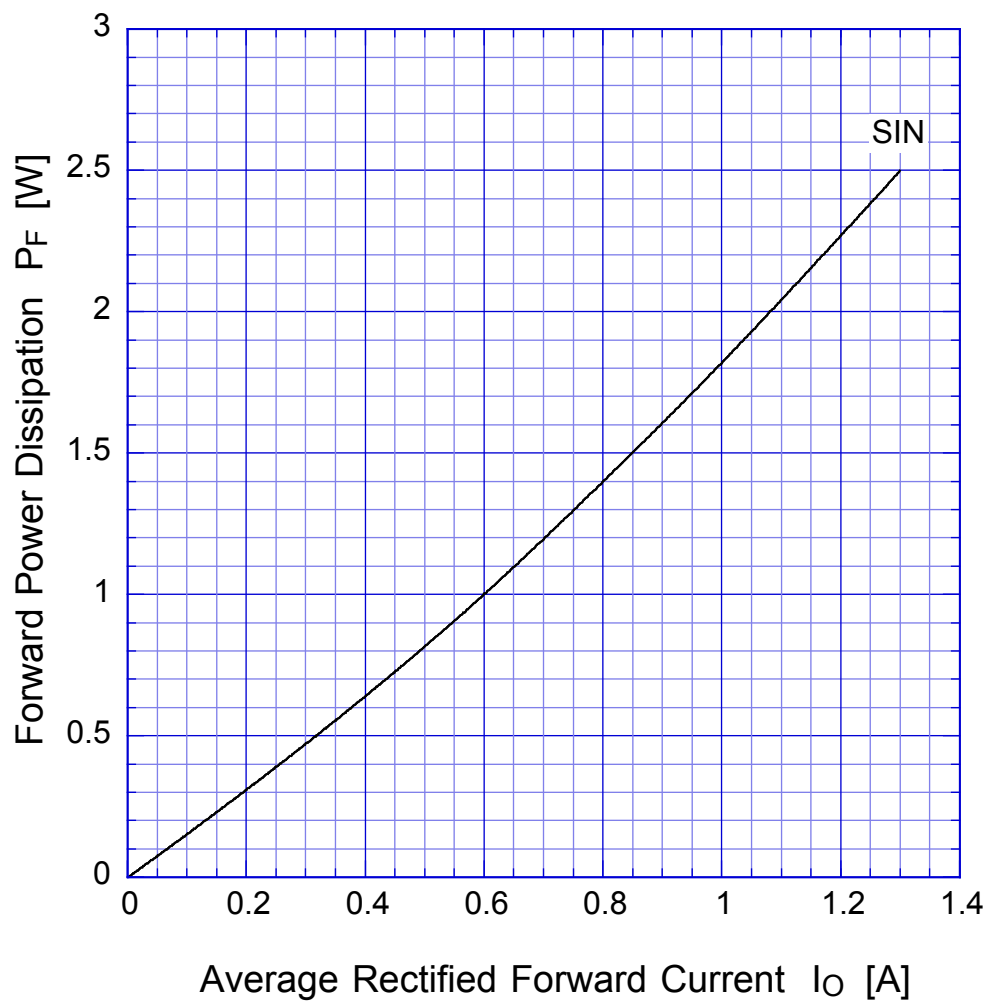
S1NBx

Forward Voltage



S1NBx

Forward Power Dissipation

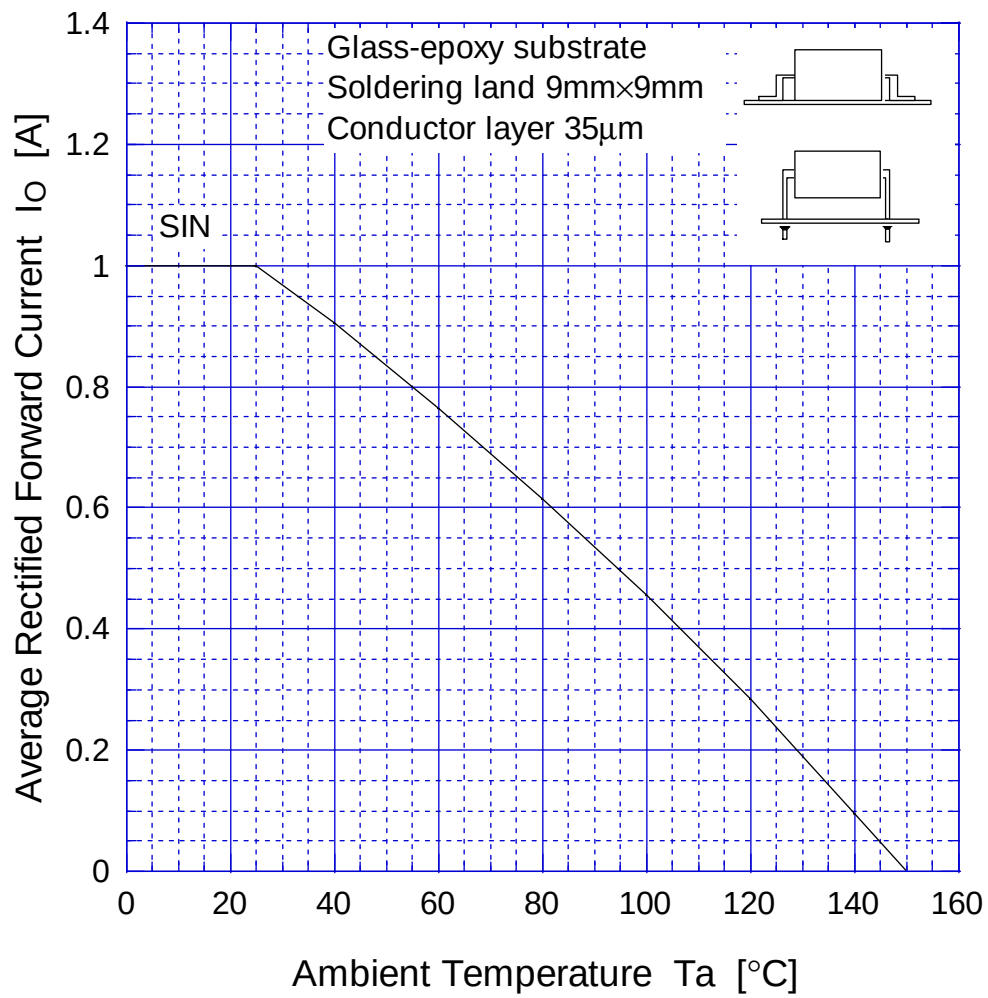


$T_j = 150^\circ\text{C}$

Sine wave

S1NBx

Derating Curve



Sine wave
R-load
Free in air

S1NBx

Peak Surge Forward Capability

