

S1ZB20

200V 0.8A

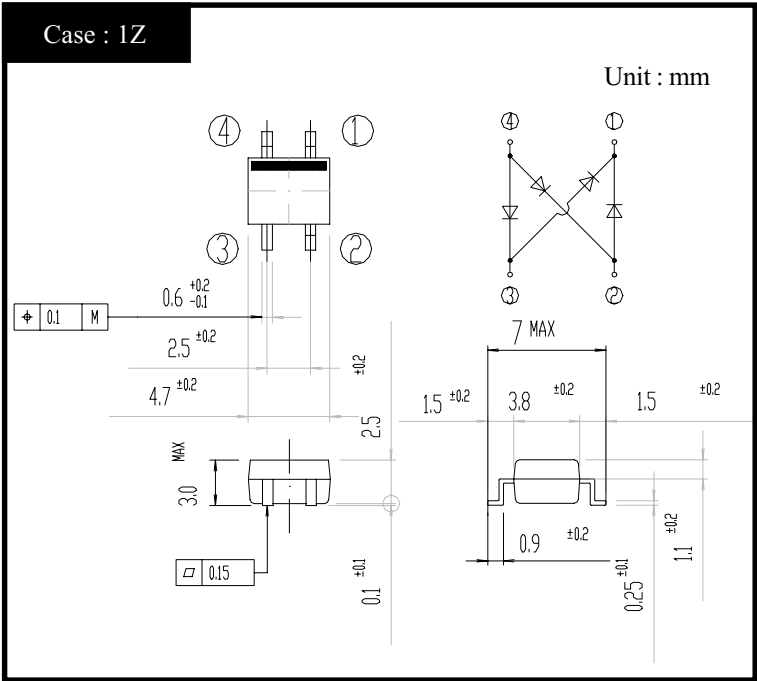
FEATURES

- Small SMT package
- High reliability with superior moisture resistance
- 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°C)

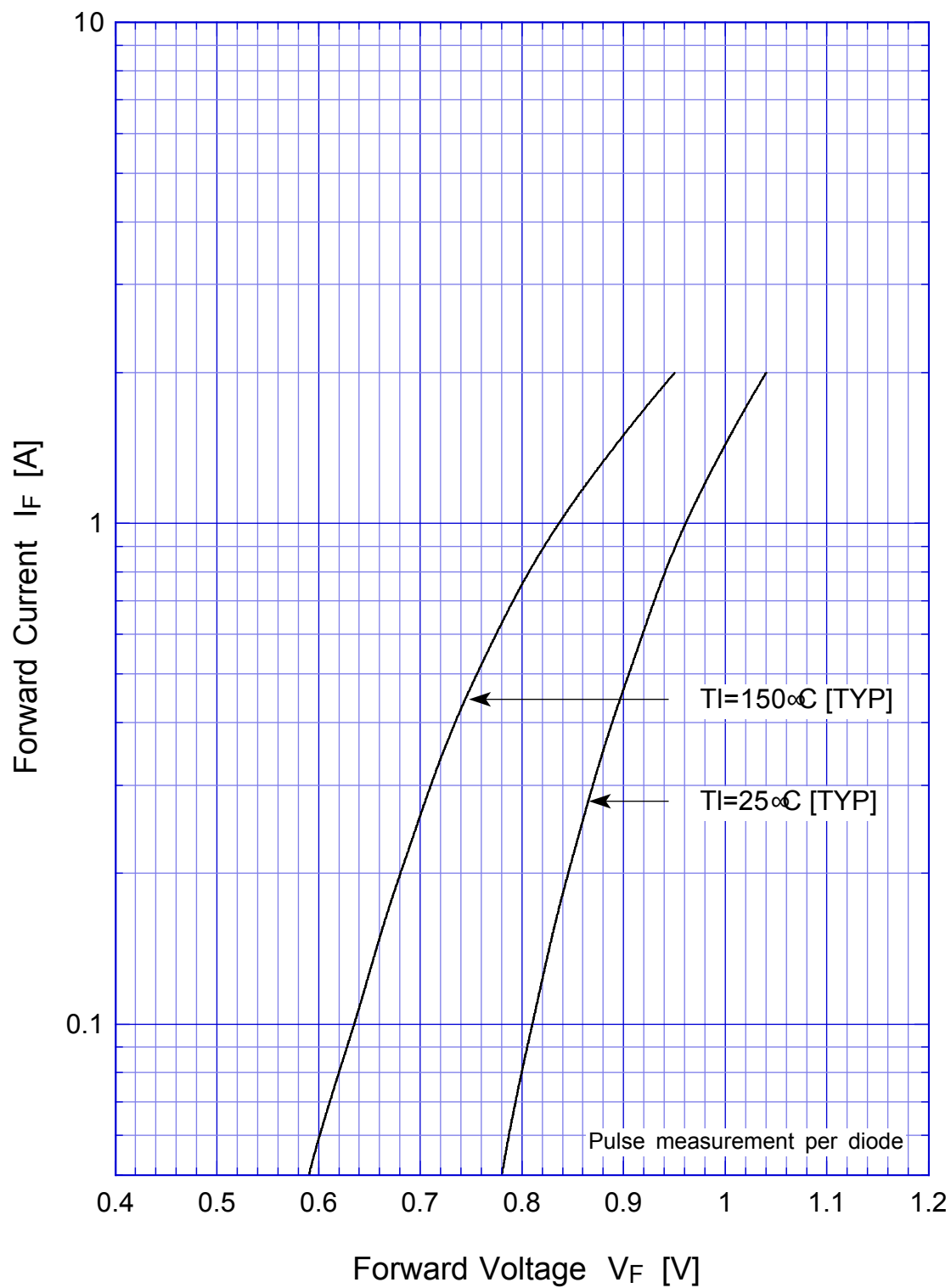
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-40~150	°C
Operating Junction Temperature	Tj		150	°C
Maximum Reverse Voltage	VRM		200	V
Average Rectified Forward Current	IO	50Hz sine wave, R-load On alumina substrate Ta=25°C	0.8	A
		50Hz sine wave, R-load On glass-epoxy substrate Ta=25°C	0.5	
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=0.4A, 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	junction to lead	Max.20	°C/W
	θja	junction to ambient On alumina substrate	Max.76	
	θja	junction to ambient On glass-epoxy substrate	Max.134	

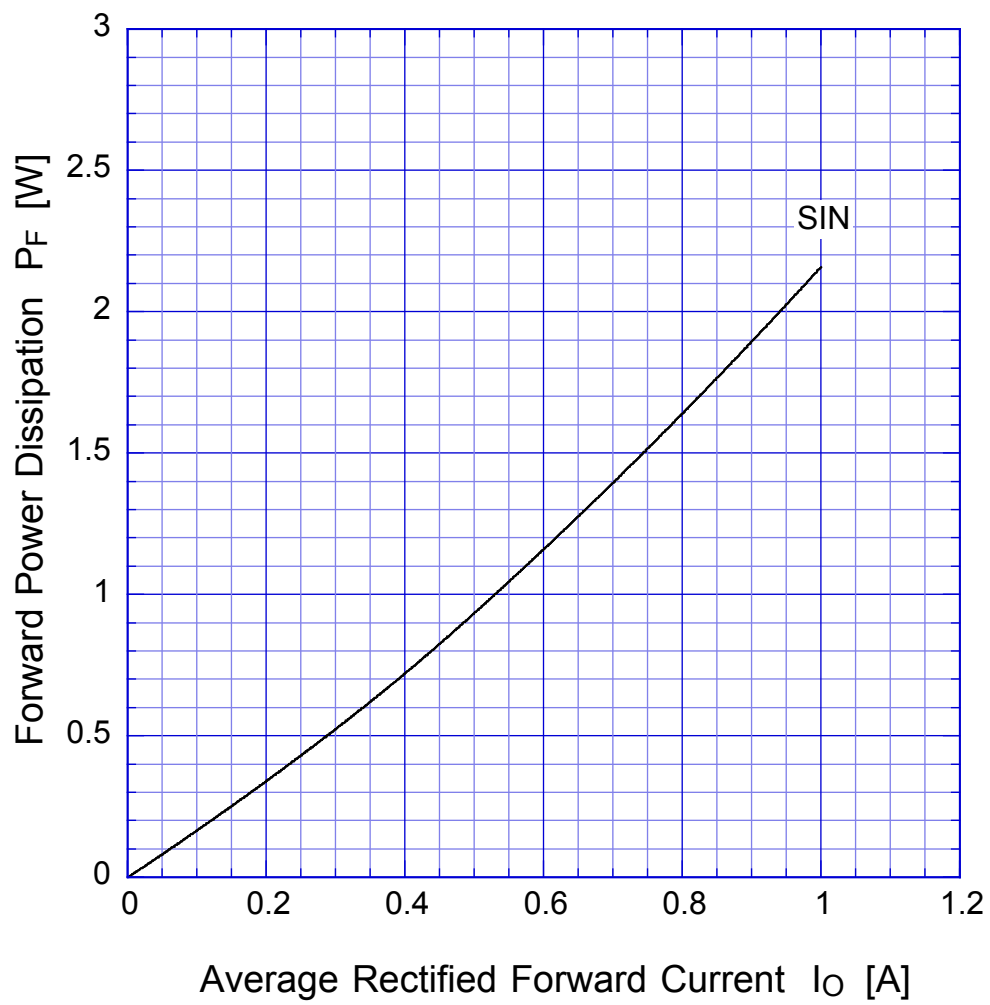
S1ZBx

Forward Voltage



S1ZBx

Forward Power Dissipation

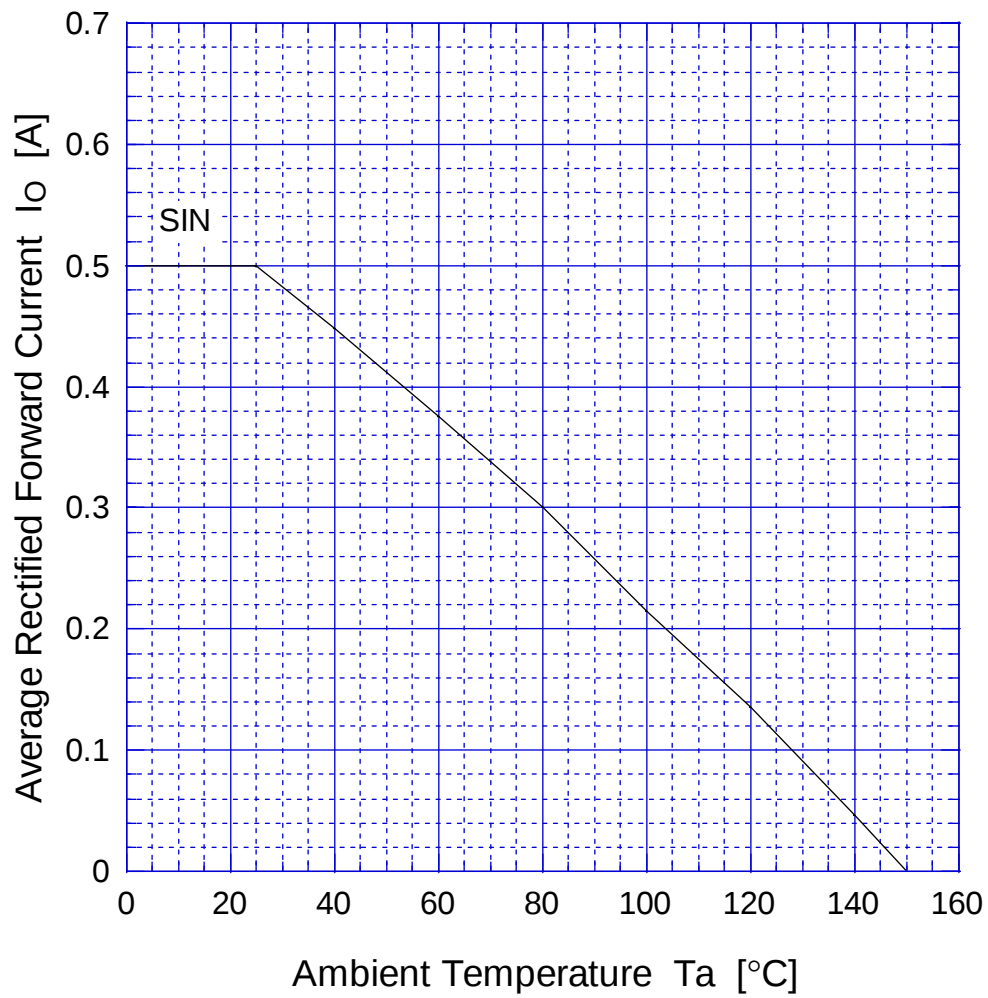


$T_j = 150^{\circ}\text{C}$

Sine wave

S1ZBx

Derating Curve



Sine wave
R-load
Free in air

	Glass-epoxy	Alumina
Soldering land	1mm×1mm	1mm×1mm
Conductor layer	35μm	20μm
Substrate thickness		0.64mm

S1ZBx

Peak Surge Forward Capability

