

SHINDENGEN

General Purpose Rectifiers

SMT Bridges

S1ZB60

600V 0.8A

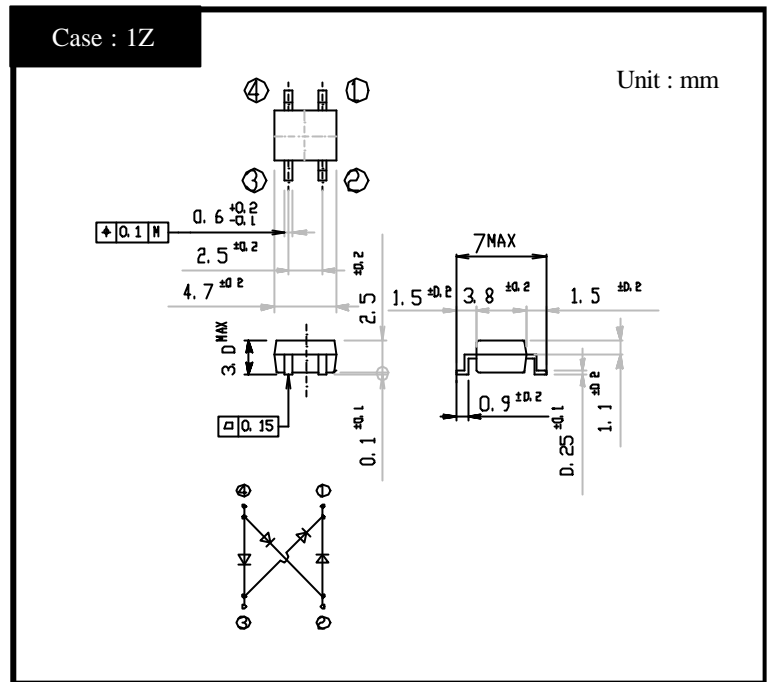
FEATURES

- 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 $T_I=25$)

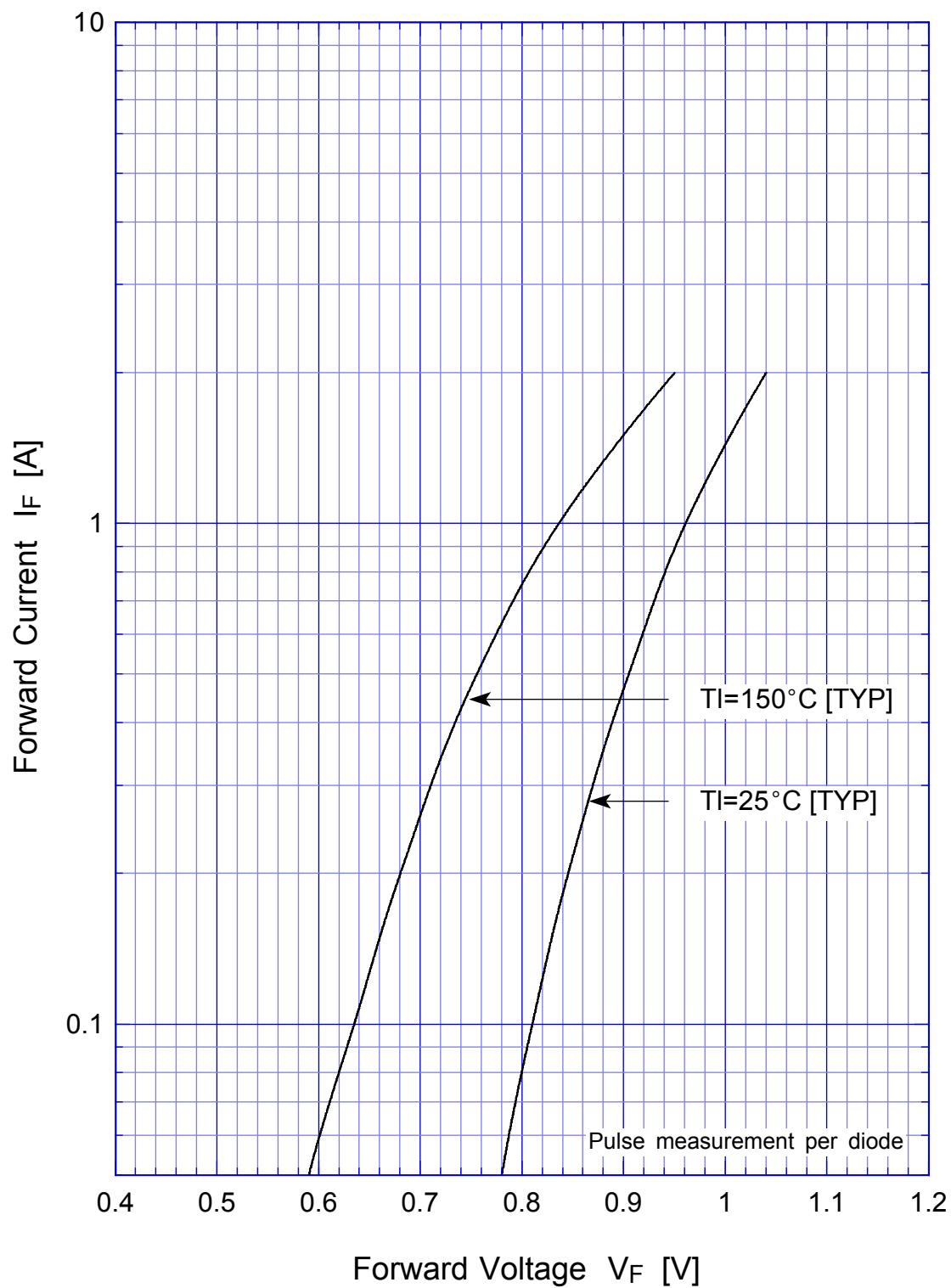
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	T_{stg}		-40 ~ 150	
Operating Junction Temperature	T_j		150	
Maximum Reverse Voltage	V_{RM}		600	V
Average Rectified Forward Current	I_O	50Hz sine wave, R-load On alumina substrate $T_a=25$	0.8	A
		50Hz sine wave, R-load On glass-epoxy substrate $T_a=25$	0.5	
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^2s

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

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V_F	$I_F=0.4A$, 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.20	
		junction to ambient	On alumina substrate	Max.76
On glass-epoxy substrate	Max.134			

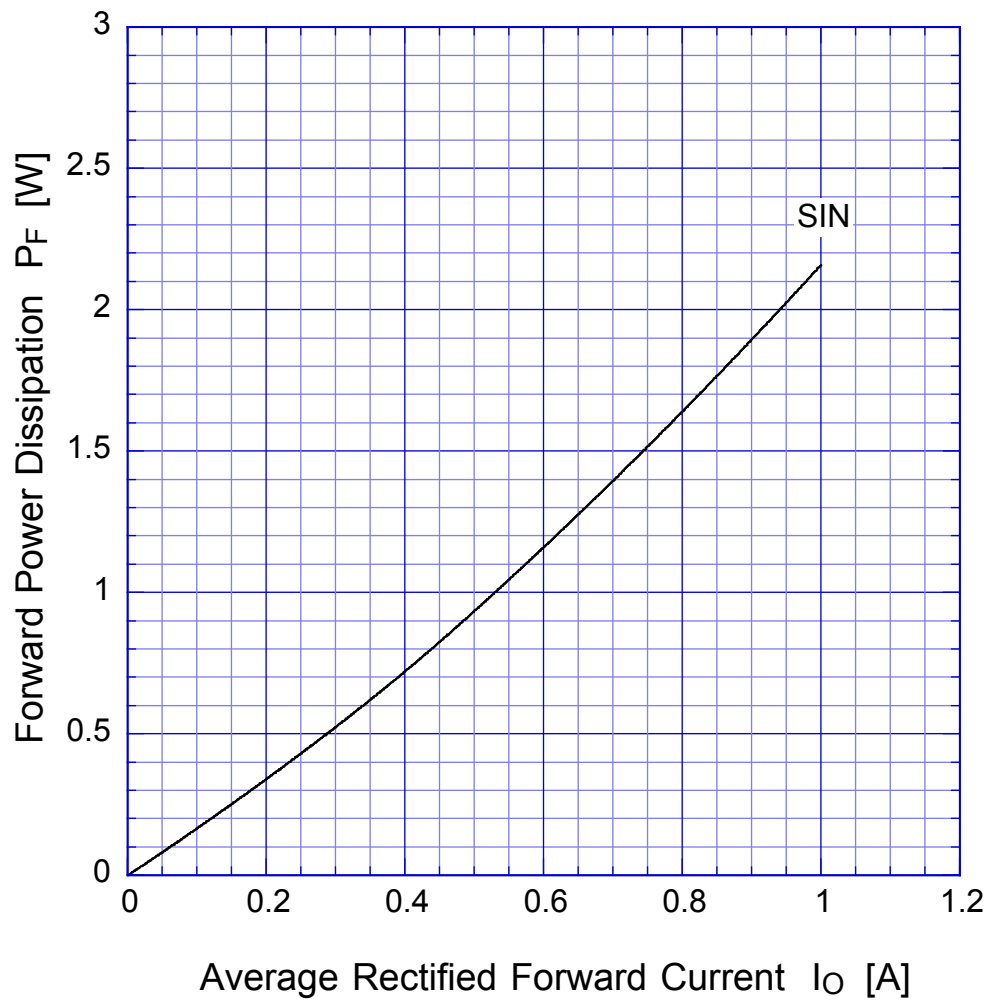
S1ZBx

Forward Voltage



S1ZBx

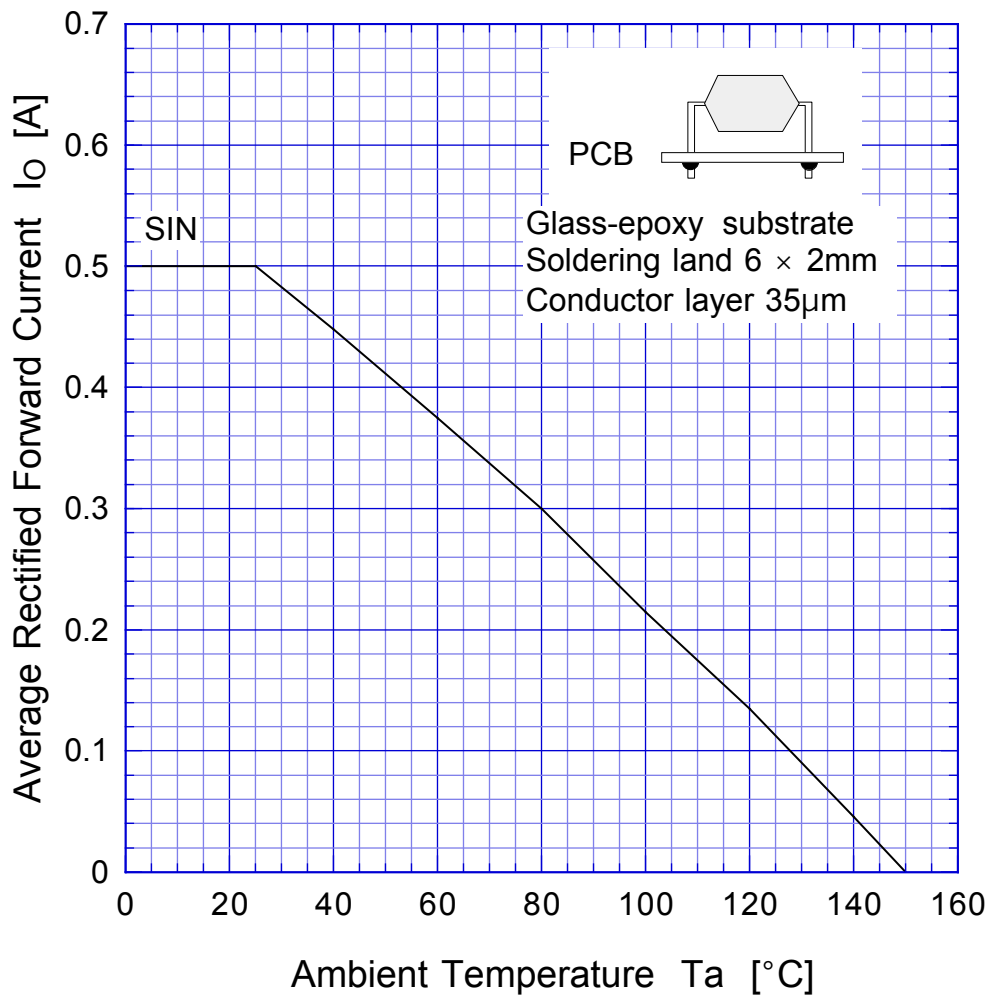
Forward Power Dissipation



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

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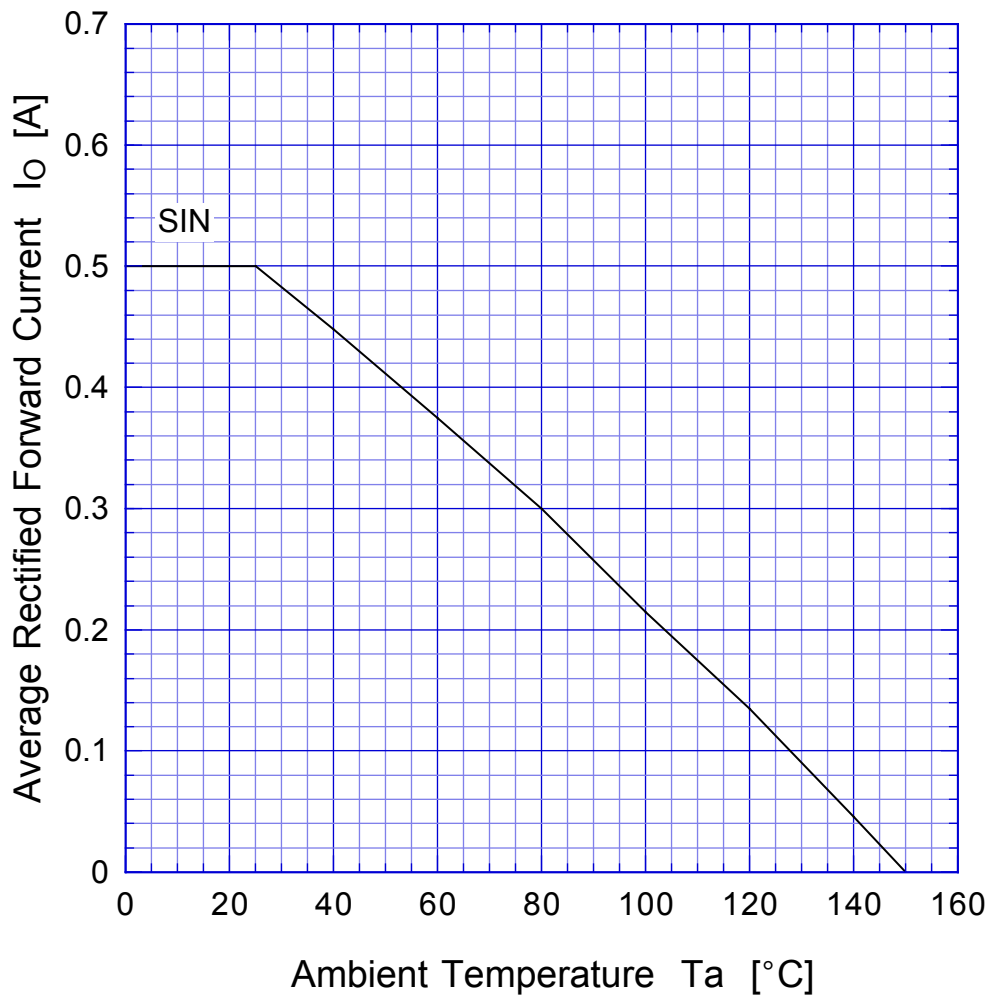
Derating Curve



Sine wave
R-load
Free in air

S1ZBx

Derating Curve



Sine wave
R-load
Free in air

	Glass-epoxy	Alumina
Soldering land	1mm	1mm
Conductor layer	35 μ m	20 μ m
Substrate thickness		0.64mm

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Peak Surge Forward Capability

