

# S1ZB60

**600V 0.8A**

## FEATURES

Small SMT package  
High reliability with superior  
moisture resistance  
Applicable to Automatic Insertion

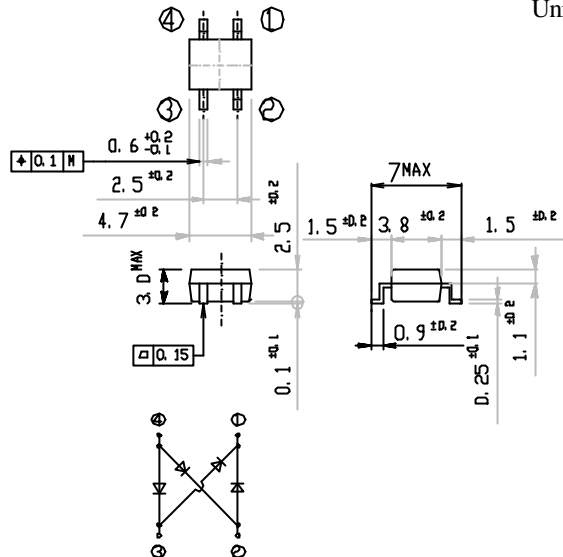
## APPLICATION

Switching power supply  
Home Appliances, Office Equipment  
Telecommunication, Factory Automation

## OUTLINE DIMENSIONS

Case : 1Z

Unit : mm



## RATINGS

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

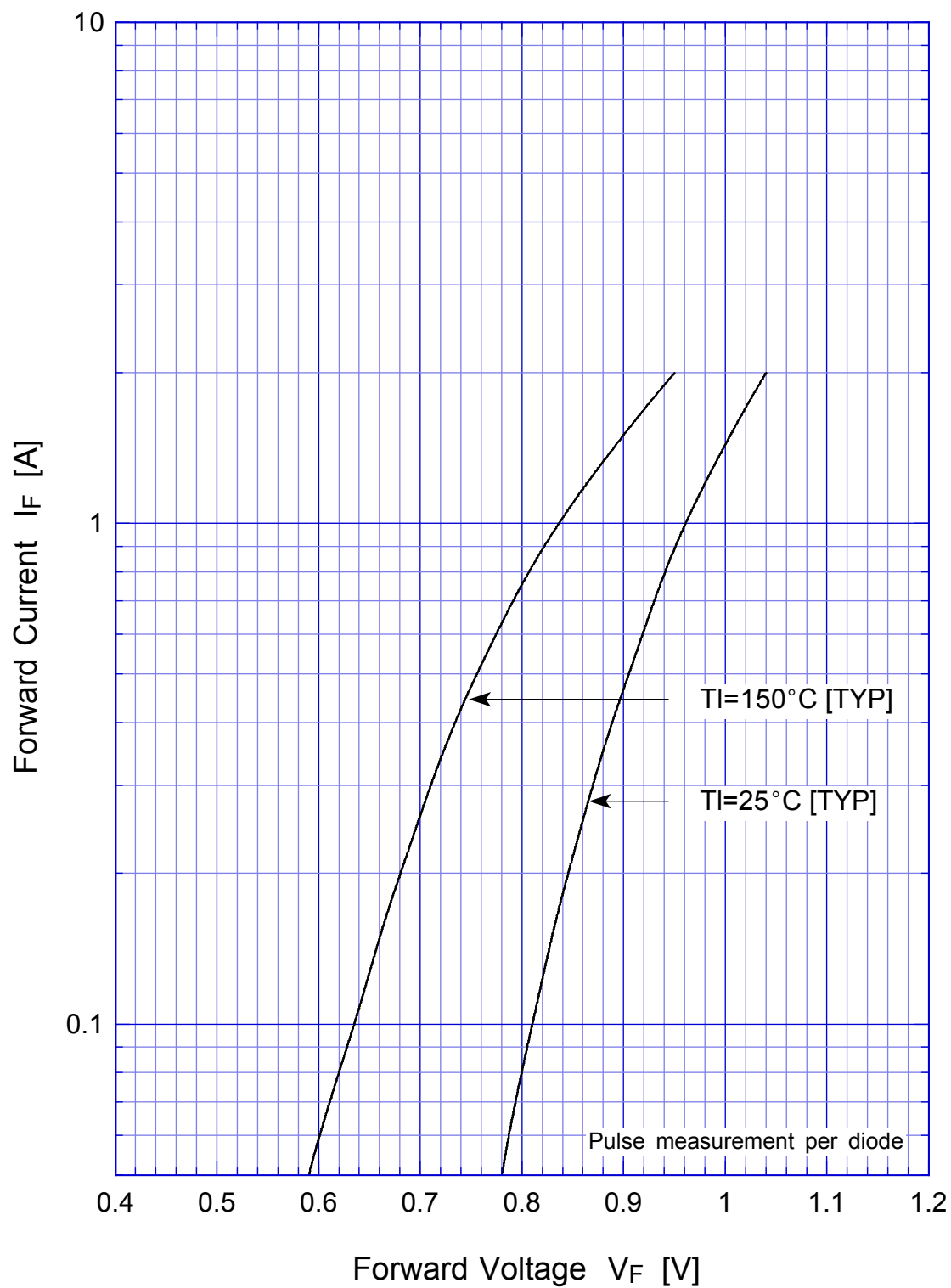
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	T <sub>stg</sub>		-40 ~ 150	
Operating Junction Temperature	T <sub>j</sub>		150	
Maximum Reverse Voltage	V <sub>RM</sub>		600	V
Average Rectified Forward Current	I <sub>o</sub>	50Hz sine wave, R-load On alumina substrate Ta=25	0.8	A
		50Hz sine wave, R-load On glass-epoxy substrate Ta=25	0.5	
Peak Surge Forward Current	I <sub>FSM</sub>	50Hz sine wave, Non-repetitive 1 cycle peak value, T <sub>j</sub> =25	30	A
Current Squared Time	I <sup>2</sup> t	1ms t < 10ms T <sub>j</sub> =25	4.5	A <sup>2</sup> s

Electrical Characteristics (If not specified Tl=25 )

Electrical Characteristics (If not specified T=25 °C)				
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	$\mu A$
Thermal Resistance	$j_l$	junction to lead	Max.20	/W
	$j_a$	junction to ambient On alumina substrate	Max.76	
		junction to ambient On glass-epoxy substrate	Max.134	

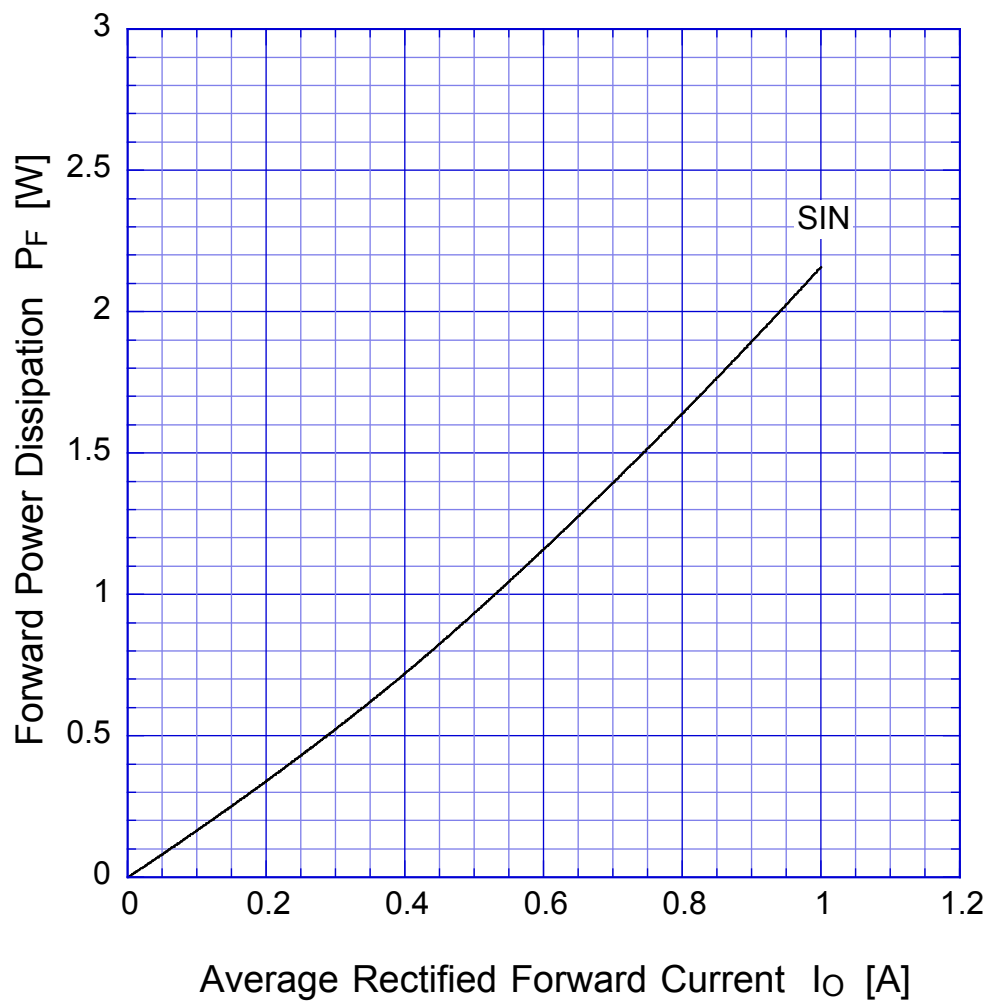
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Forward Voltage



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Forward Power Dissipation

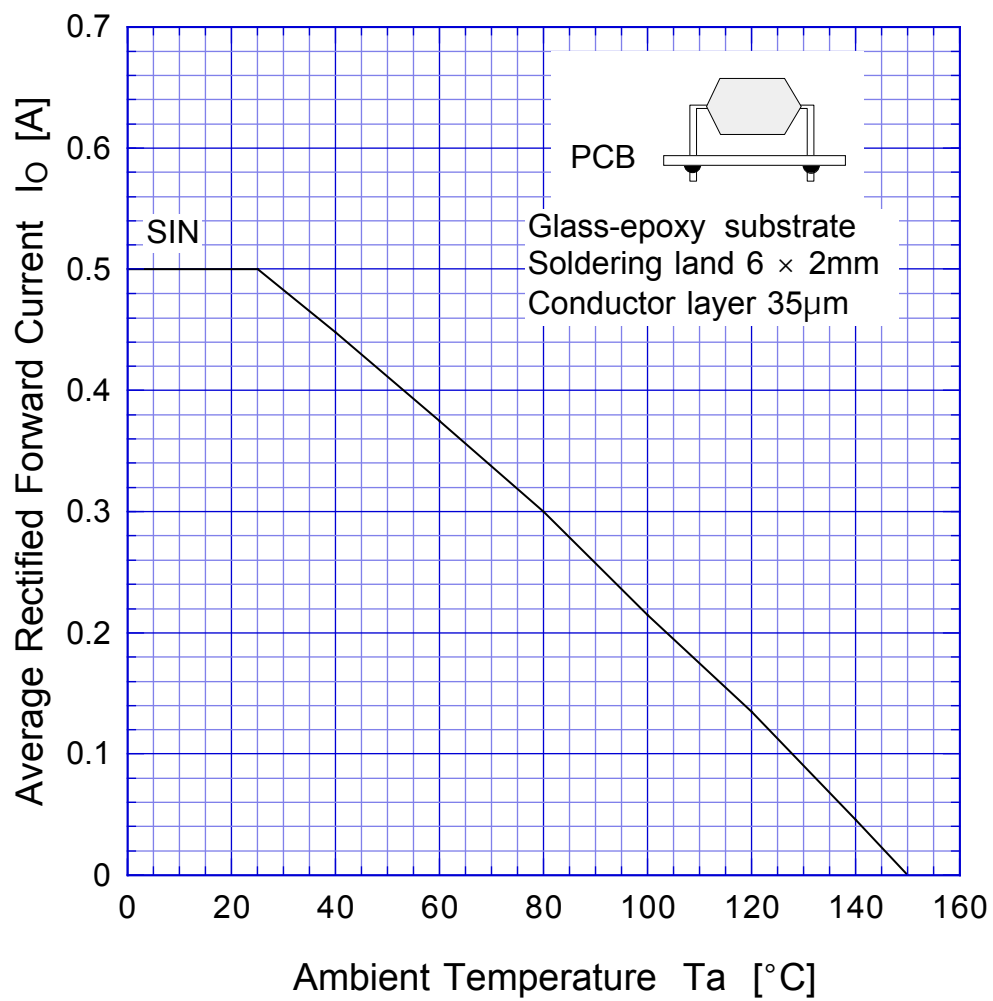


$T_j = 150^\circ\text{C}$

Sine wave

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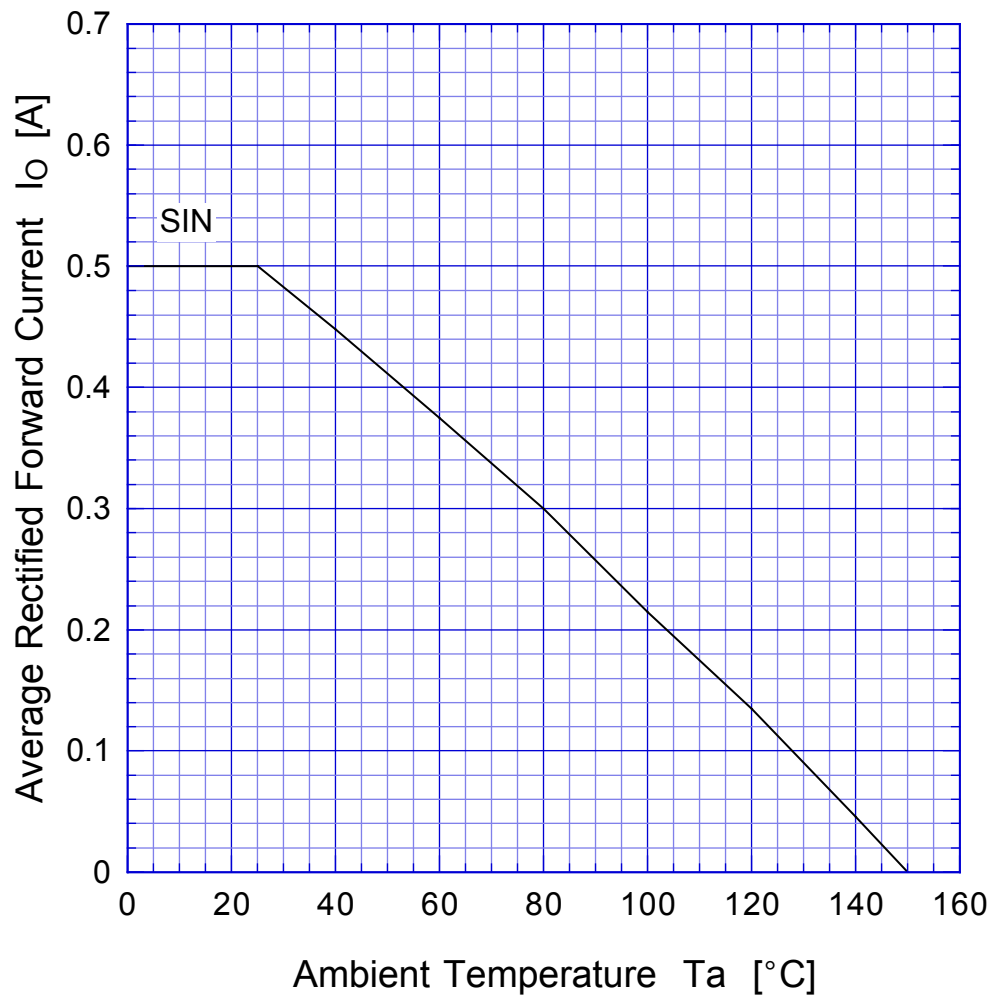
Derating Curve



Sine wave  
R-load  
Free in air

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Derating Curve



Sine wave  
R-load  
Free in air

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

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## Peak Surge Forward Capability

