

# S1ZB60

## 600V 0.8A

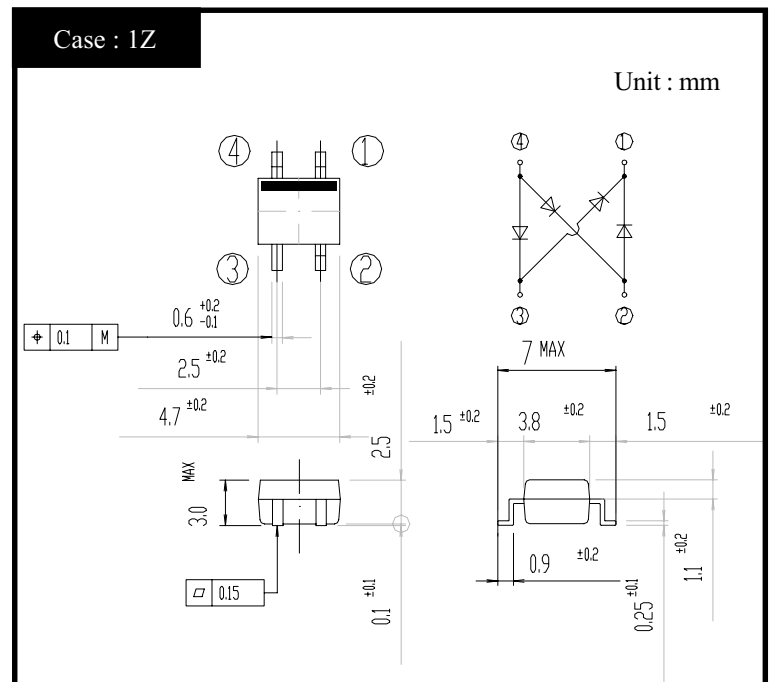
### FEATURES

- 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 $T_I=25^\circ\text{C}$ )

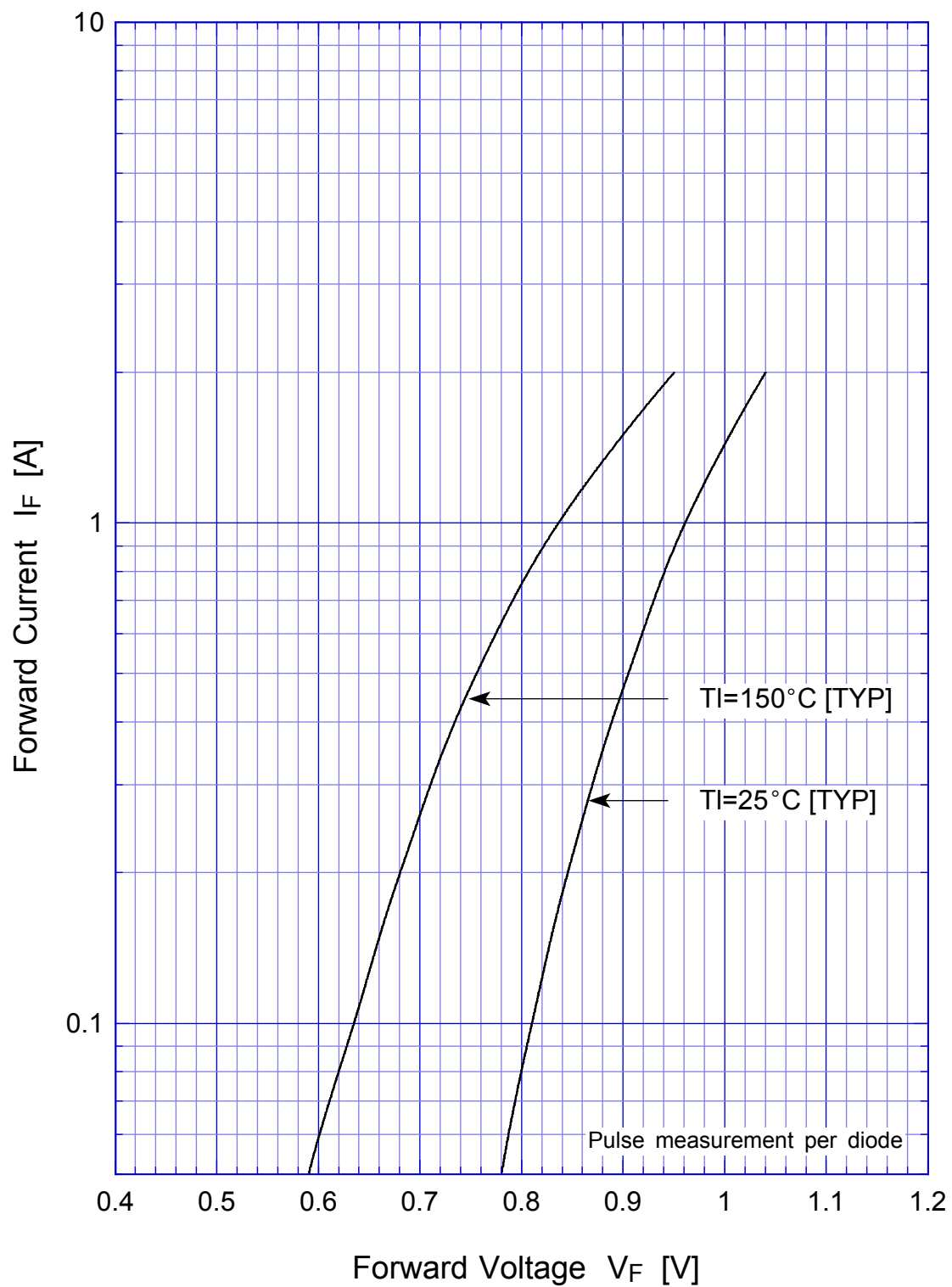
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	$T_{stg}$		-40~150	$^\circ\text{C}$
Operating Junction Temperature	$T_j$		150	$^\circ\text{C}$
Maximum Reverse Voltage	$V_{RM}$		600	V
Average Rectified Forward Current	$I_O$	50Hz sine wave, R-load On alumina substrate $T_a=25^\circ\text{C}$	0.8	A
		50Hz sine wave, R-load On glass-epoxy substrate $T_a=25^\circ\text{C}$	0.5	
Peak Surge Forward Current	$I_{FSM}$	50Hz sine wave, Non-repetitive 1 cycle peak value, $T_j=25^\circ\text{C}$	30	A
Current Squared Time	$I^2t$	$1\text{ms} \leq t < 10\text{ms}$ $T_j=25^\circ\text{C}$	4.5	$\text{A}^2\text{s}$

#### ● Electrical Characteristics (If not specified $T_I=25^\circ\text{C}$ )

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	$V_F$	$I_F=0.4\text{A}$ , 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	$\mu\text{A}$
Thermal Resistance	$\theta_{jl}$	junction to lead	Max.20	$^\circ\text{C}/\text{W}$
	$\theta_{ja}$	junction to ambient On alumina substrate	Max.76	
		junction to ambient On glass-epoxy substrate	Max.134	

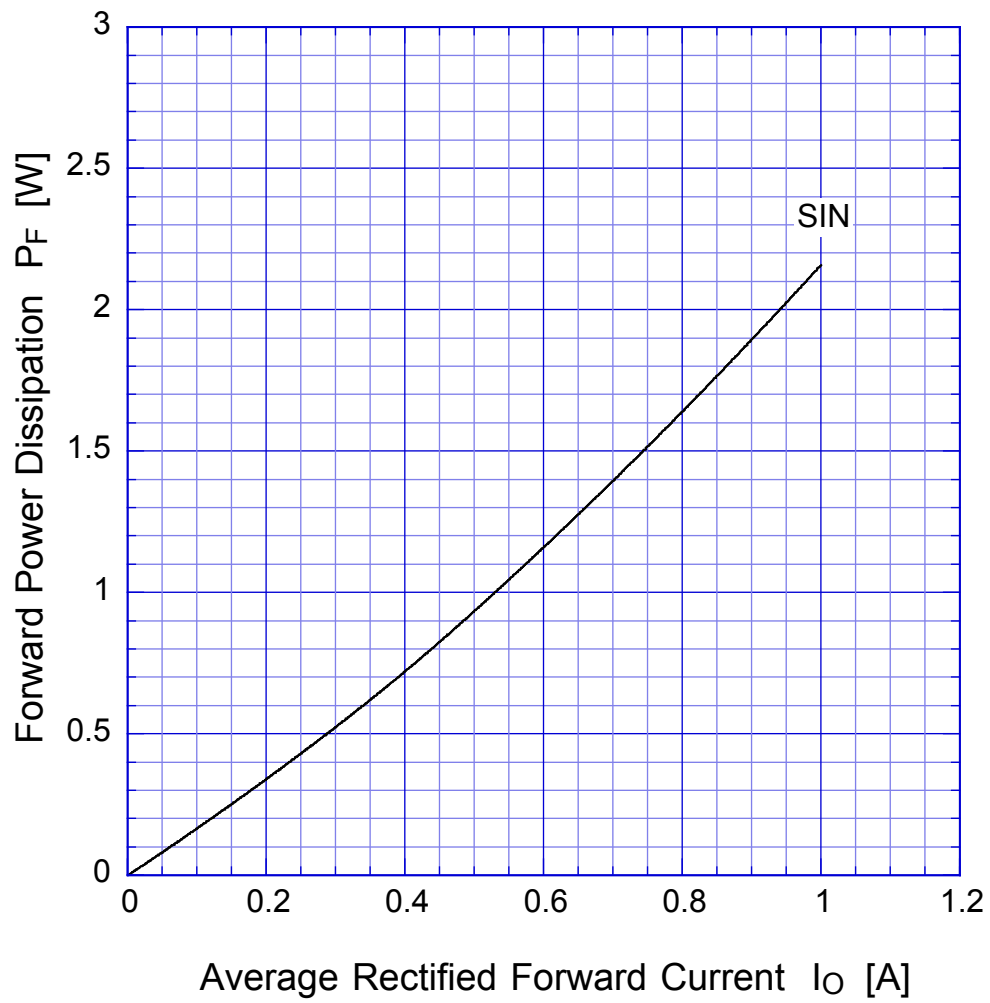
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Forward Voltage



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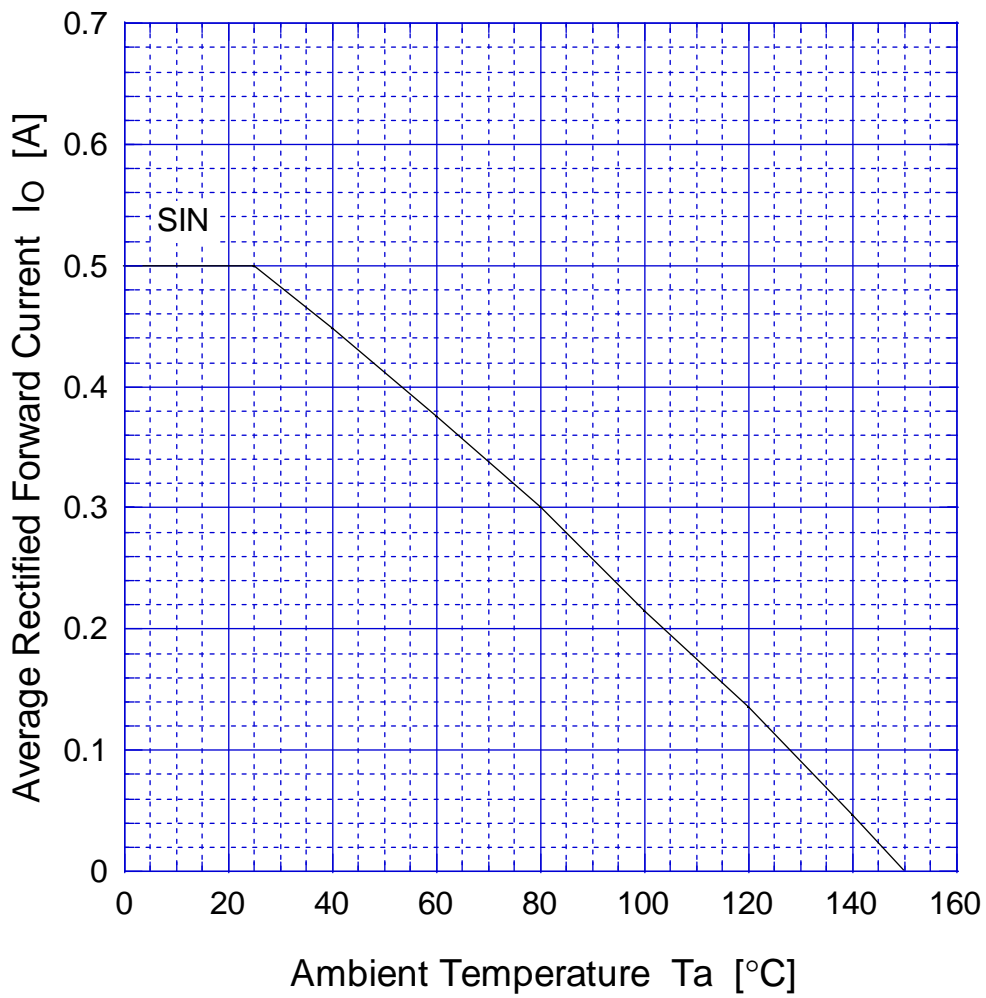
Forward Power Dissipation



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

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# Derating Curve

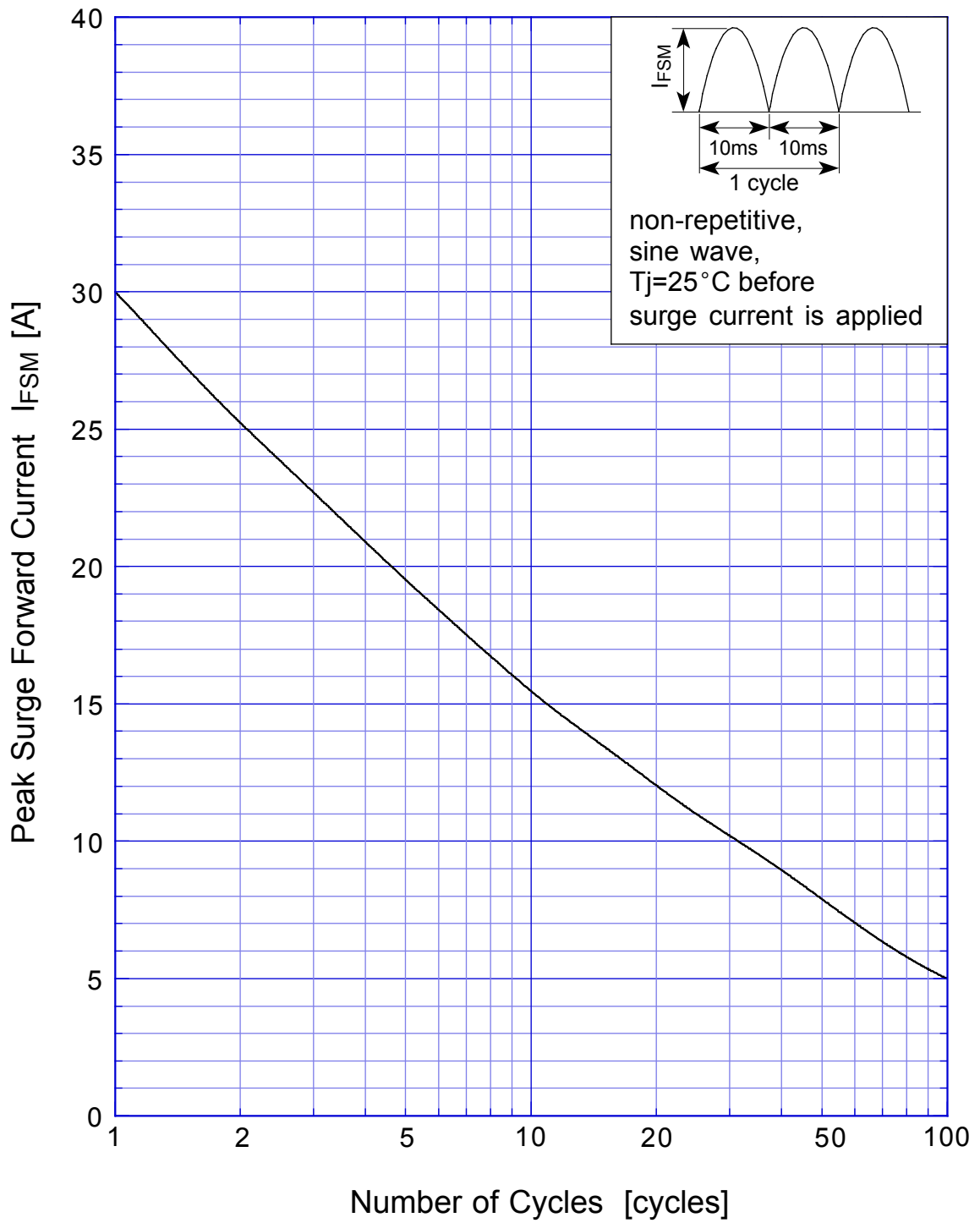


Sine wave  
R-load  
Free in air

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

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## Peak Surge Forward Capability



This datasheet has been download from:

[www.datasheetcatalog.com](http://www.datasheetcatalog.com)

Datasheets for electronics components.