

S1ZA60

600V 1.1A

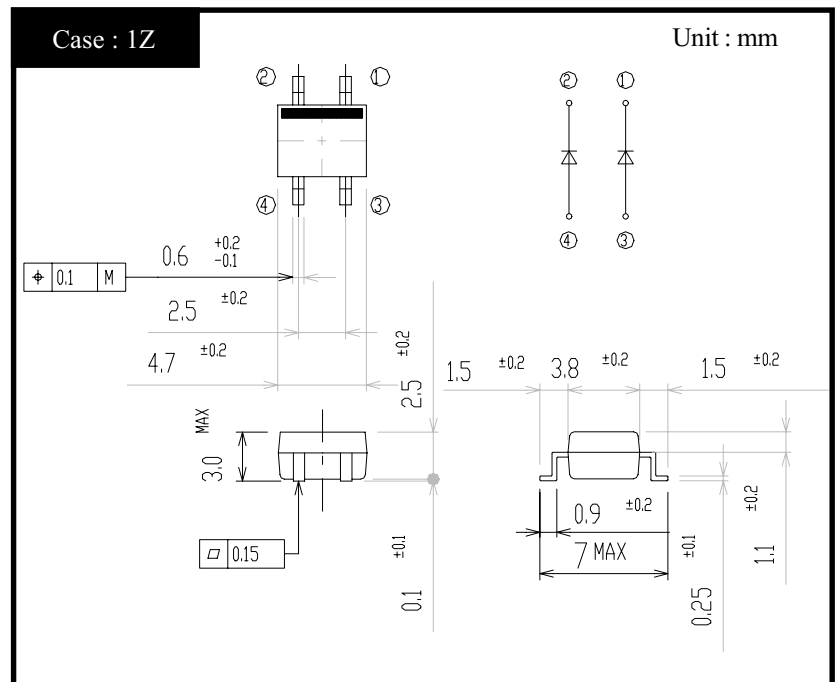
FEATURES

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

APPLICATION

- Conventional Rectification
- Motor
- Home Appliances, Office Equipment
- Telecommunication, Factory Automation

OUTLINE DIMENSIONS



RATINGS

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

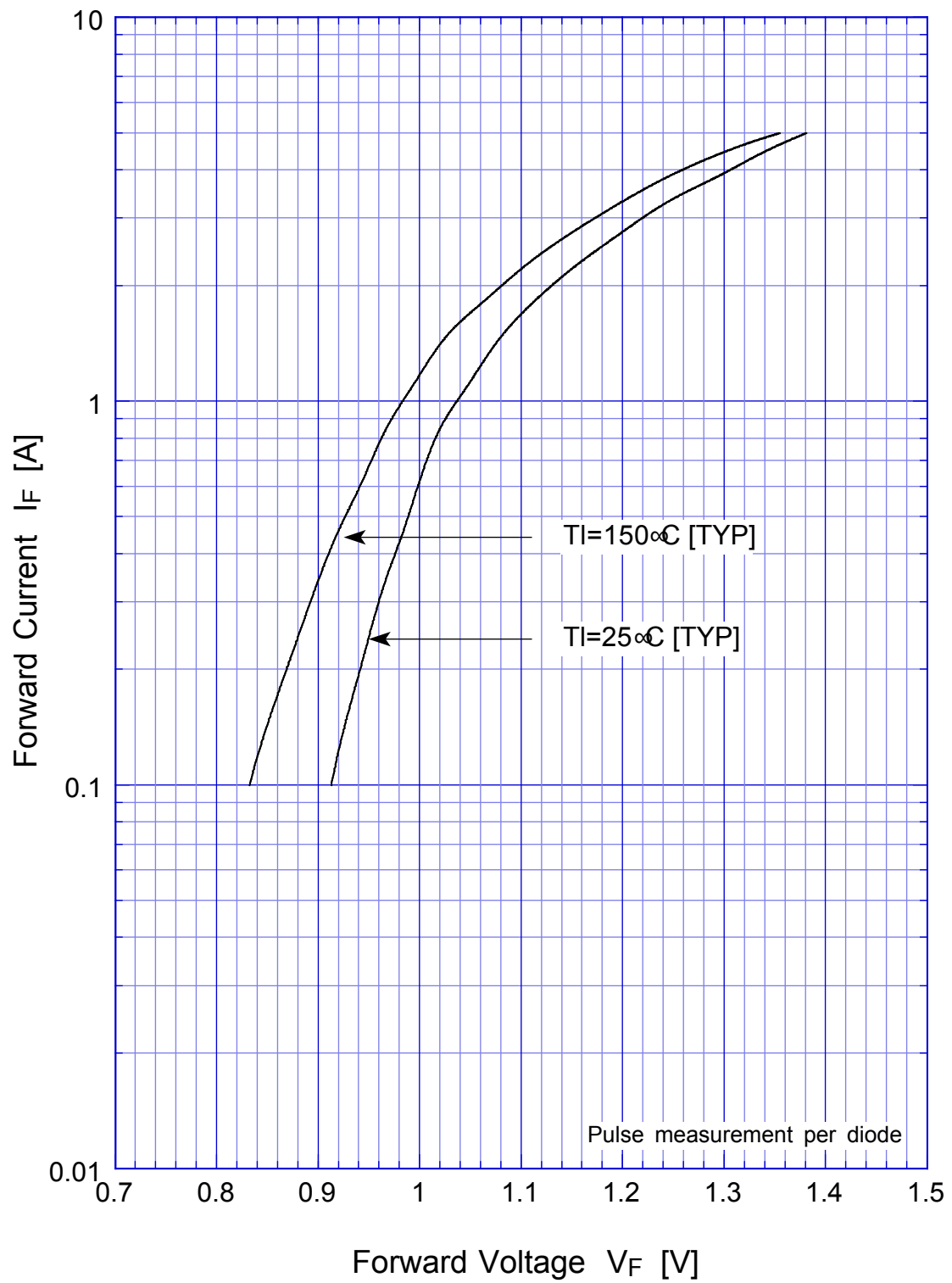
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	T _{stg}		-40~150	°C
Operating Junction Temperature	T _j		150	°C
Maximum Reverse Voltage	V _{RM}		600	V
Average Rectified Forward Current	I _O	50Hz sine wave, R-load, Ta=25°C On alumina substrate 1 element operation	1.1	A
		50Hz sine wave, R-load, Ta=25°C On alumina substrate 2 element operation	0.8	
		50Hz sine wave, R-load, Ta=25°C On glass-epoxy substrate 1 element operation	0.9	
		50Hz sine wave, R-load, Ta=25°C On glass-epoxy substrate 2 element operation	0.63	
Peak Surge Forward Current	I _{FSM}	50Hz sine wave, Non-repetitive 1cycle peak value, T=25°C	30	A

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

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V_F	$I_F=0.9A$, Pulse measurement, Rating of per diode	Max.1.1	V
Reverse Current	I_R	$V_R=V_{RM}$, Pulse measurement, Rating of per diode	Max.10	μA
Thermal Resistance	θ_{ja}	junction to ambient On alumina substrate 1 element operation	Max.93	$^{\circ}C/W$
		junction to ambient On alumina substrate 2 element operation	Max.140	
		junction to ambient On glass-epoxy substrate 1 element operation	Max.120	
		junction to ambient On glass-epoxy substrate 2 element operation	Max.186	

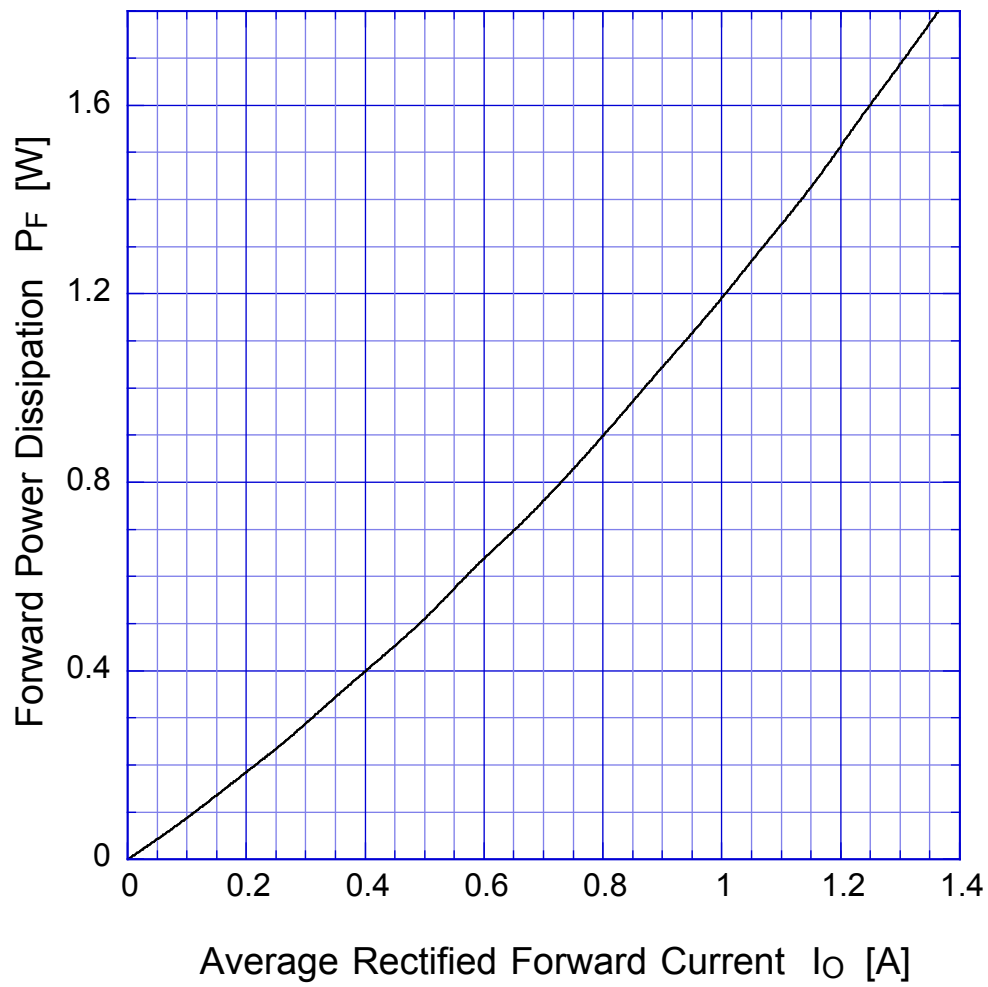
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Forward Voltage



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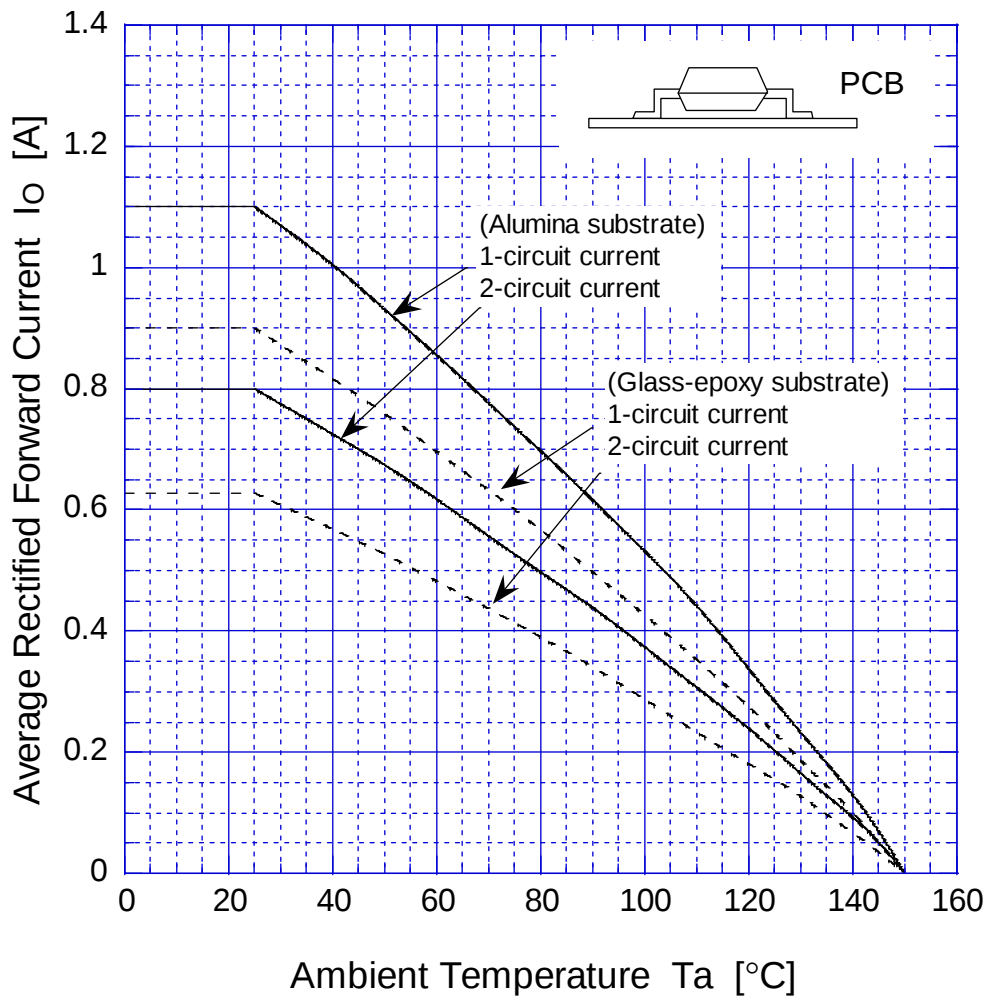
Forward Power Dissipation



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

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Derating Curve



Alumina substrate
Soldering land 1mm×1mm
Conductor layer 20μm
Substrate thickness 0.64mm

Glass-epoxy substrate
Soldering land 1mm×1mm
Conductor layer 35μm

Sine wave
R-load
Free in air

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Peak Surge Forward Capability

