

# S1ZB60-7072

# Bridge Diodes 600V, 0.8A

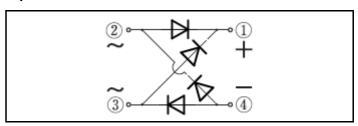
#### **Feature**

- Small SMD (There is also DIP)
- High Reliability
- Pb free terminal
- RoHS:Yes

### **OUTLINE**



## **Equivalent circuit**



# Absolute Maximum Ratings (unless otherwise specified : TI=25°C)

Item	Symbol	Conditions	Ratings	Unit
Storage temperrature	Tstg		-40 to 150	°C
Junction temperature	Tj		-40 to 150	°C
Repetitive peak reverse voltage	$V_{RRM}$		600	V
Average forward current	I <sub>F</sub> (AV)	50Hz sine wave, Resistance load, TI=117°C	0.8	Α
Average forward current	I <sub>F</sub> (AV)	50Hz sine wave, Resistance load, On alumina substrate, Ta=25°C *	0.8	А
Average forward current	I <sub>F</sub> (AV)	50Hz sine wave, Resistance load, On glass-epoxy substrate, Ta=25°C *	0.5	А
Surge forward current	I <sub>FSM</sub>	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C	ve, Non-repetitive 1 cycle peak value, 30	
Current squared time	l²t	1ms≦tp<10ms, Tj=25°C, per diode	4.5	A <sup>2</sup> s

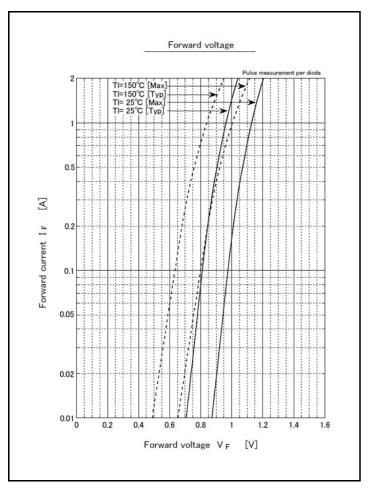
<sup>\* :</sup> See the original Specifications

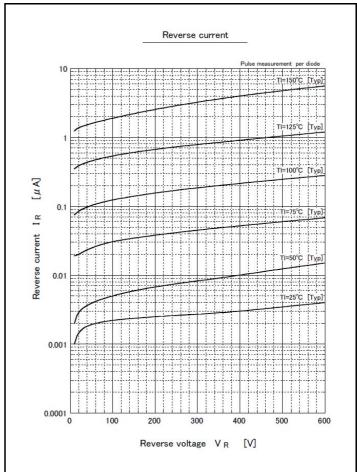
# **Electrical Characteristics** (unless otherwise specified : TI=25°C)

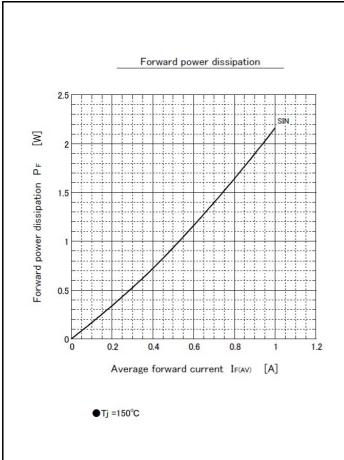
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	O mit
Forward voltage	V <sub>F</sub>	IF=0.4A, Pulse measurement, per diode			1.05	V
Reverse current	I <sub>R</sub>	VR=600V, Pulse measurement, per diode			10	μΑ
Thermal resistance	Rth(j-l)	Junction to lead			20	°C/W
Thermal resistance	Rth(j-a)	Junction to ambient, On alumina substrate *		76	°C/W	
Thermal resistance	Rth(j-a)	Junction to ambient, On glass-epoxy substrate *			134	°C/W

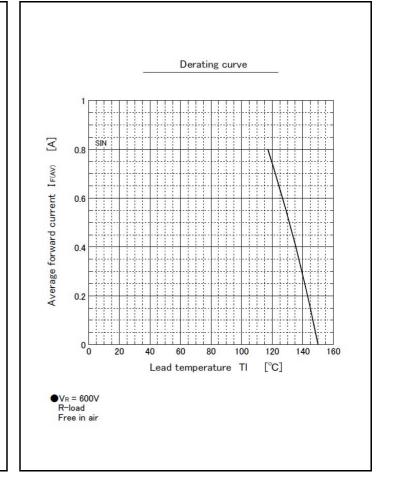
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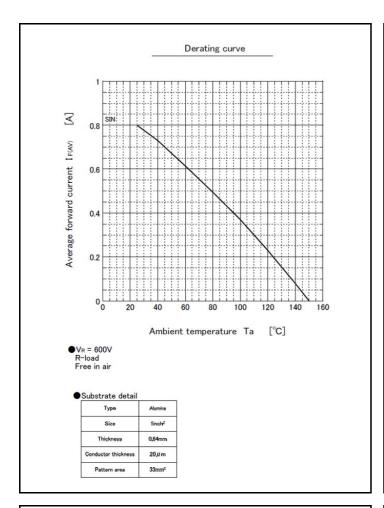
## **CHARACTERISTIC DIAGRAMS**

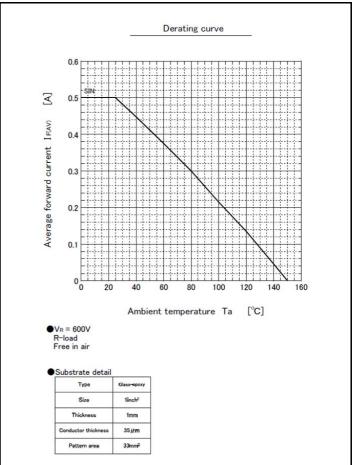


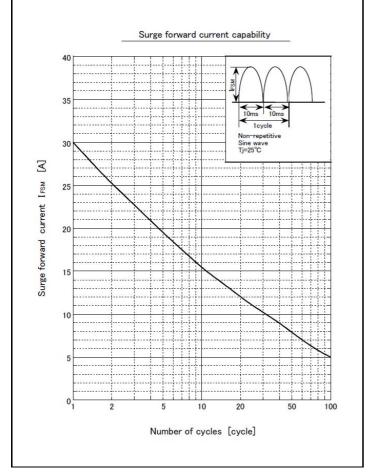


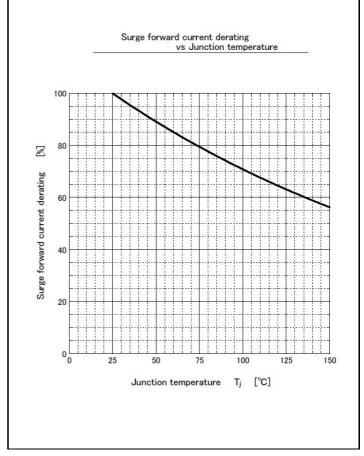


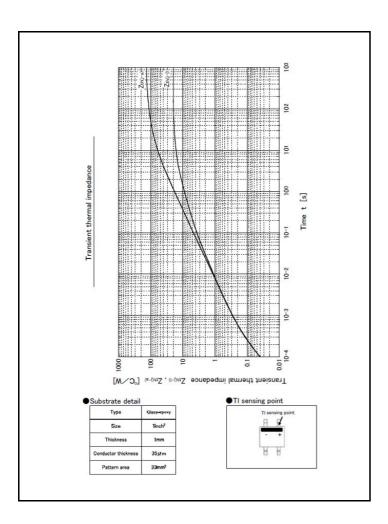








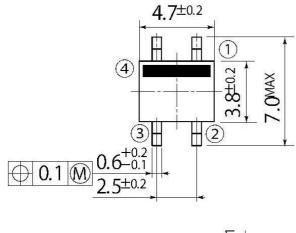


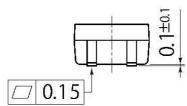


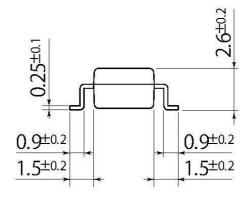
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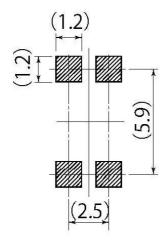
C2

JEDEC Code	TO-269AA		
JEITA Code	-		
House Name	1Z(SMD)		









Referential Soldering Pad

<sup>•</sup> Optimize soldering pad to the board design and soldering condition.

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