

# S1ZB80-7072

## Bridge Diodes

800V, 0.8A

### Feature

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

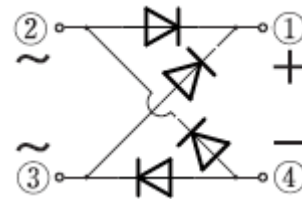
### OUTLINE

Package (House Name): 1Z

Package (JEDEC Code): TO-269AA



### Equivalent circuit



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

Item	Symbol	Conditions	Ratings	Unit
Storage temperature	Tstg		-40 to 150	°C
Junction temperature	Tj		150	°C
Repetitive peak reverse voltage	V <sub>RRM</sub>		800	V
Average forward current	I <sub>F(AV)</sub>	50Hz sine wave, Resistance load, On alumina substrate, Ta=25°C *	0.8	A
Average forward current	I <sub>F(AV)</sub>	50Hz sine wave, Resistance load, On glass-epoxy substrate, Ta=25°C *	0.5	A
Surge forward current	I <sub>FSM</sub>	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C	30	A
Current squared time	I <sup>2</sup> t	1ms ≤ t < 10ms, Tj=25°C, per diode	4.5	A <sup>2</sup> s

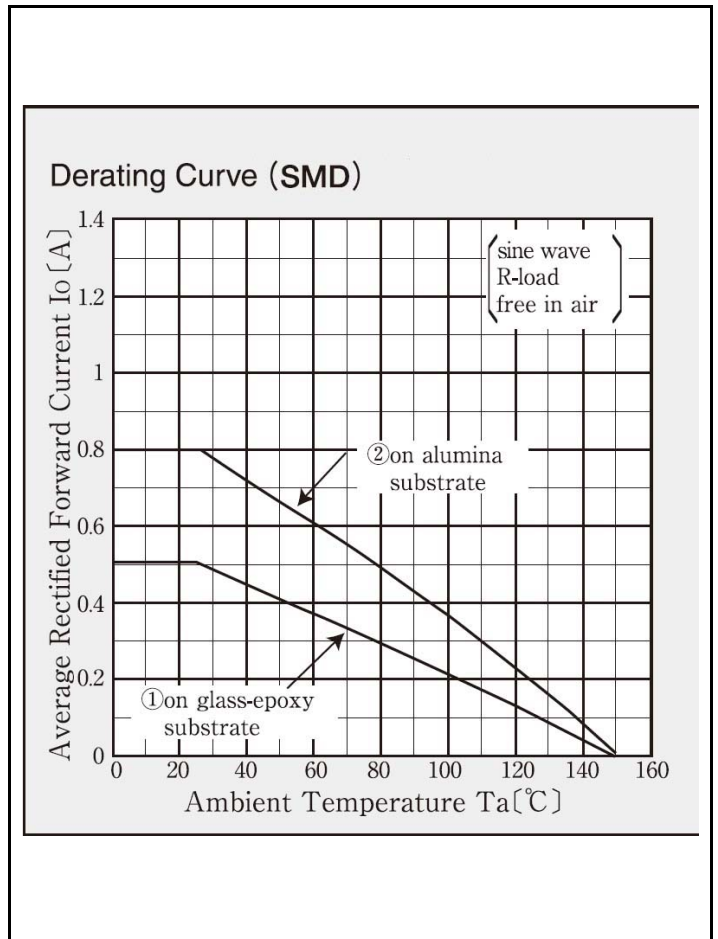
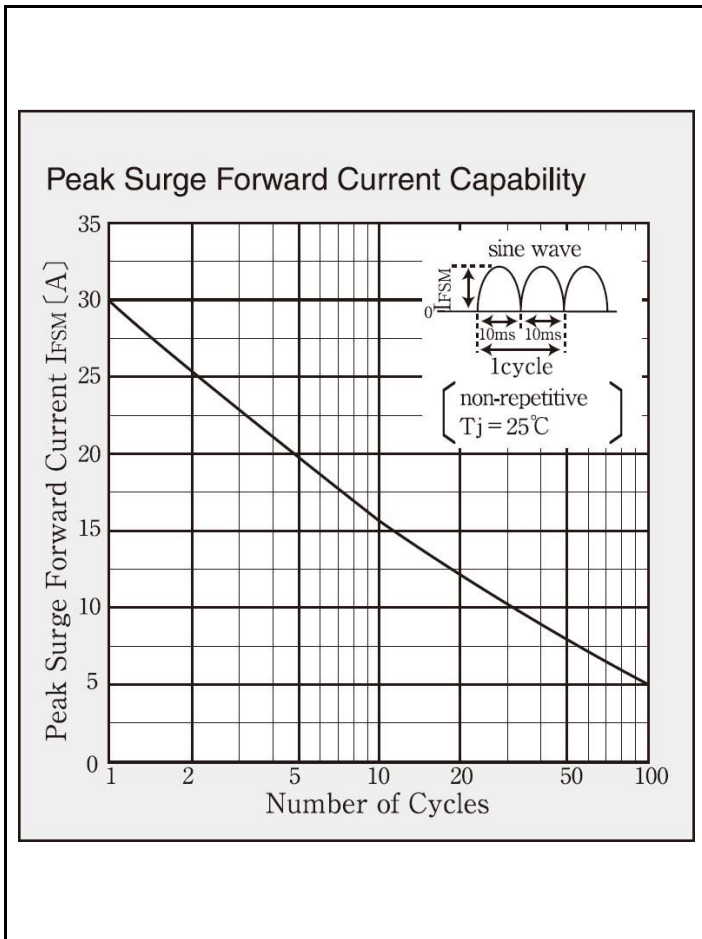
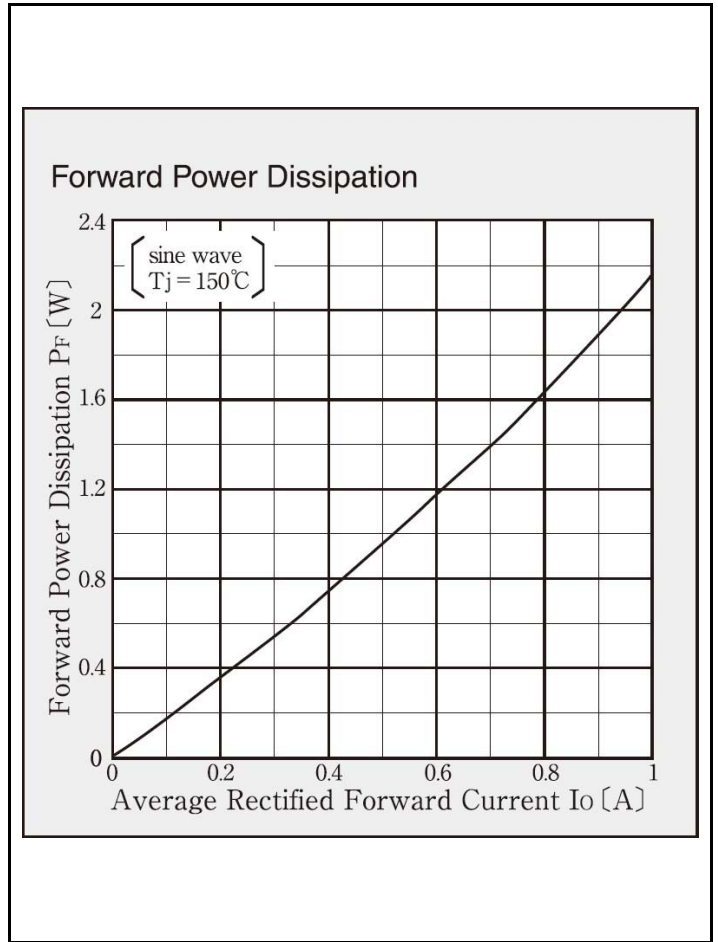
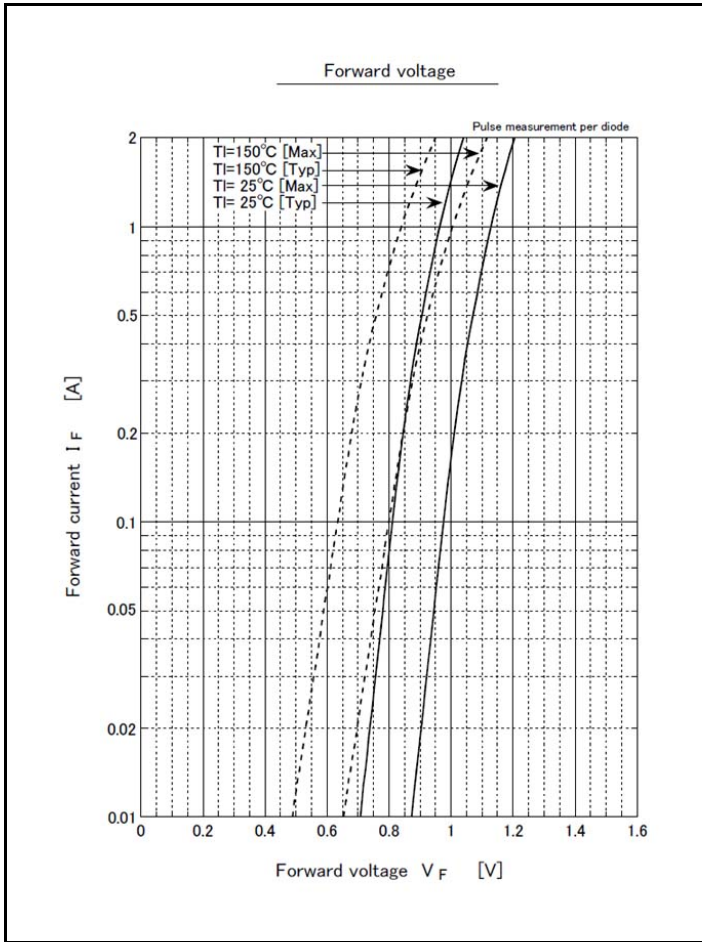
\* : See the original Specifications

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

Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	$V_F$	$I_F=0.4A$ , Pulse measurement, per diode			1.05	V
Reverse current	$I_R$	$V_R=800V$ , Pulse measurement, per diode			10	$\mu A$
Thermal resistance	$R_{th(j-l)}$	Junction to lead			20	$^{\circ}C/W$
Thermal resistance	$R_{th(j-a)}$	Junction to ambient, On alumina substrate			76	$^{\circ}C/W$
Thermal resistance	$R_{th(j-a)}$	Junction to ambient, On glass-epoxy substrate			134	$^{\circ}C/W$

\* :See the original Specifications

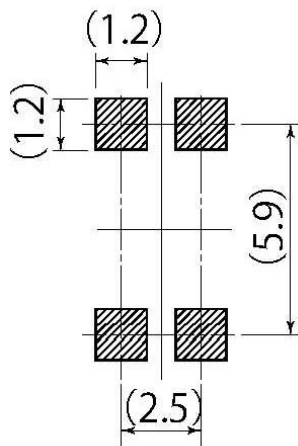
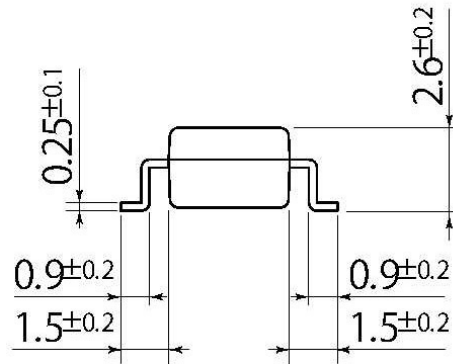
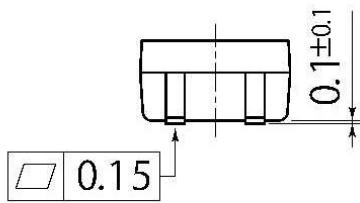
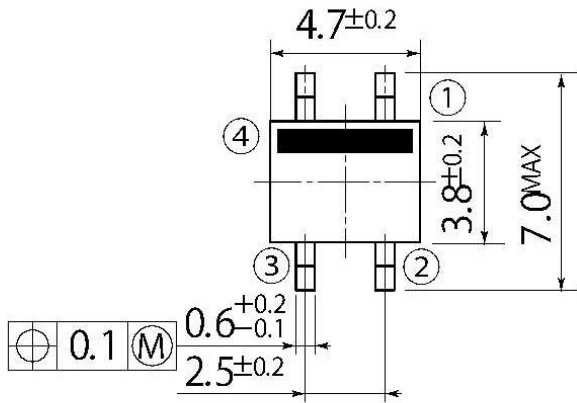
# CHARACTERISTIC DIAGRAMS



	①	②
soldering land	1mm <sup>□</sup>	1mm <sup>□</sup>
conductor layer	35 $\mu$ m	20 $\mu$ m
substrate thickness	—	0.64 t

C2

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



Referential Soldering Pad

• Optimize soldering pad to the board design and soldering condition.

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