S1ZB80-7072 Bridge Diodes 800V, 0.8A

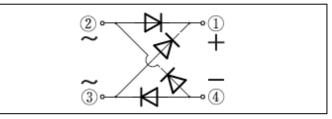
Feature

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

OUTLINE



Equivalent circuit



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

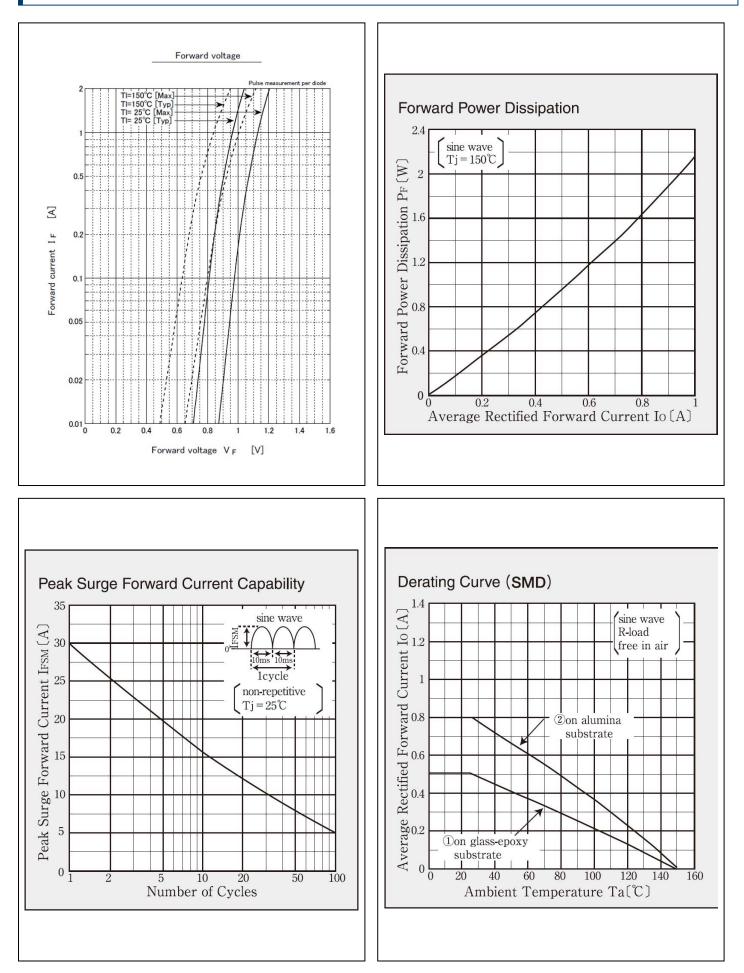
ltem	Symbol	Conditions	Ratings	Unit
Storage temperrature	Tstg		-40 to 150	°C
Junction temperature	Тј		150	°C
Repetitive peak reverse voltage	V _{RRM}		800	v
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, On alumina substrate, Ta=25°C ※	0.8	A
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, On glass-epoxy substrate, Ta=25°C ※	0.5	A
Surge forward current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C	30	А
Current squared time	l ² t	1ms≦t<10ms, Tj=25°C, per diode	4.5	A ² s

※ ∶See the original Specifications

Electrical Characteris	rical Characteristics (unless otherwise specified : Tl=25°C)					
lt	Cumhal	Conditions	Ratings			11
ltem	Symbol		MIN	ТҮР	МАХ	Unit
Forward voltage	V _F	IF=0.4A, Pulse measurement, per diode			1.05	V
Reverse current	I _R	VR=800V, Pulse measurement, per diode			10	μA
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

* : See the original Specifications

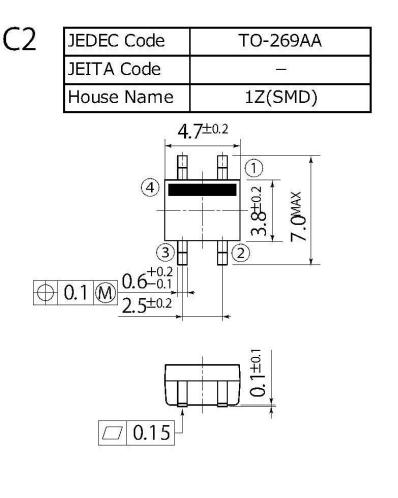
CHARACTERISTIC DIAGRAMS

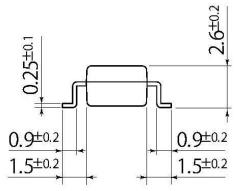


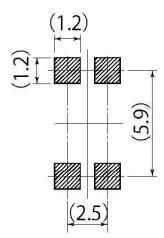
	1	2	
soldering land	$1 \mathrm{mm}^{\square}$	1 mm $^{\Box}$	
conductor layer	35µm	m $20\mu\text{m}$ \cdot 0.64 t	
substrate thickness	—		

unit:mm

scale: 4/1







Referential Soldering Pad

Optimize soldering pad to the board design and soldering condition.

Notes

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[Specific applications]

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