

S1ZB60-7101

Bridge Diodes
600V, 0.8A

Feature

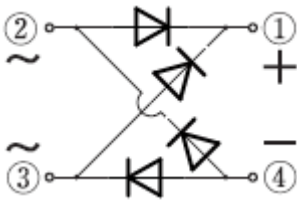
- Small DIP (There is also SMD)
- High Reliability
- Pb free terminal
- RoHS:Yes

OUTLINE

Package (House Name): 1Z



Equivalent circuit



Absolute Maximum Ratings (unless otherwise specified : Tl=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	VRRM		600	V
Average forward current	IF(AV)	50Hz sine wave, Resistance load, Tl=117°C	0.8	A
Average forward current	IF(AV)	50Hz sine wave, Resistance load, On alumina substrate, Ta=25°C ※	0.8	A
Average forward current	IF(AV)	50Hz sine wave, Resistance load, On glass-epoxy substrate, Ta=25°C ※	0.5	A
Surge forward current	IFSM	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C	30	A
Current squared time	I²t	1ms≤tp<10ms, Tj=25°C, per diode	4.5	A²s

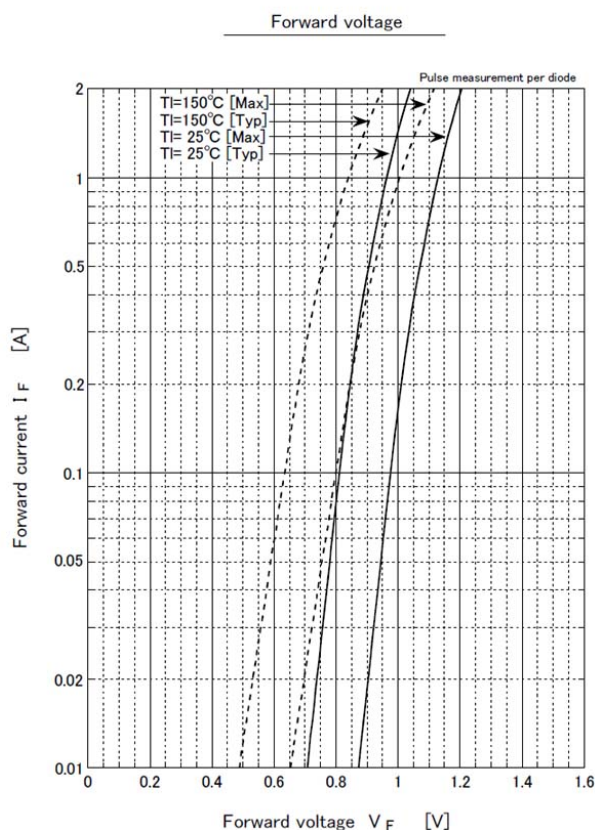
※ :See the original Specifications

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

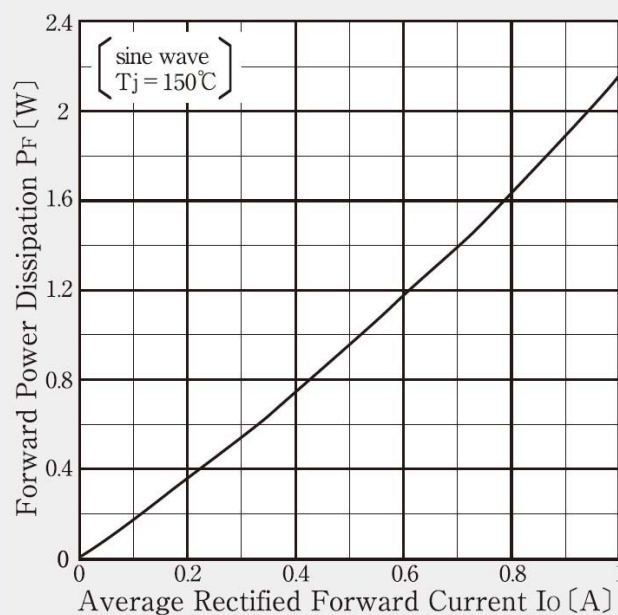
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V_F	IF=0.4A, Pulse measurement, per diode			1.05	V
Reverse current	I_R	VR=600V, Pulse measurement, per diode			10	μA
Thermal resistance	Rth(j-l)	Junction to lead			20	°C/W
Thermal resistance	Rth(j-a)	Junction to ambient, On alumina substrate ※			76	°C/W
Thermal resistance	Rth(j-a)	Junction to ambient, On glass-epoxy substrate ※			134	°C/W

※ :See the original Specifications

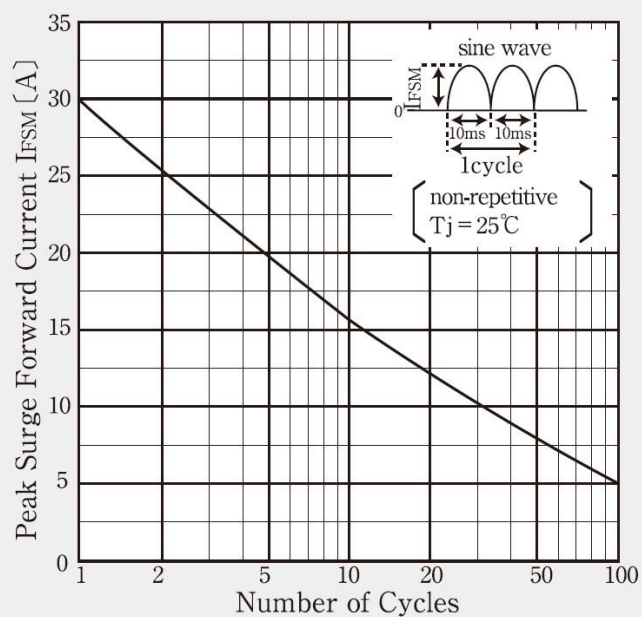
CHARACTERISTIC DIAGRAMS



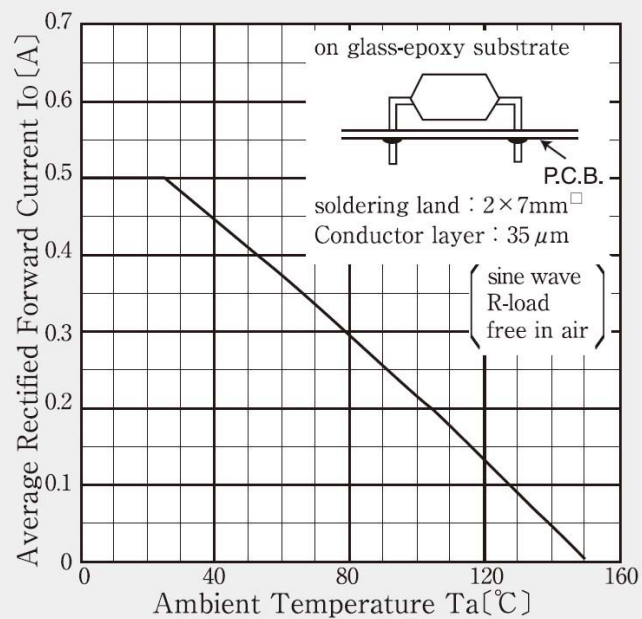
Forward Power Dissipation



Peak Surge Forward Current Capability

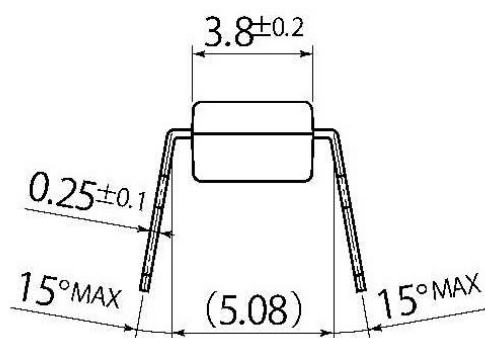
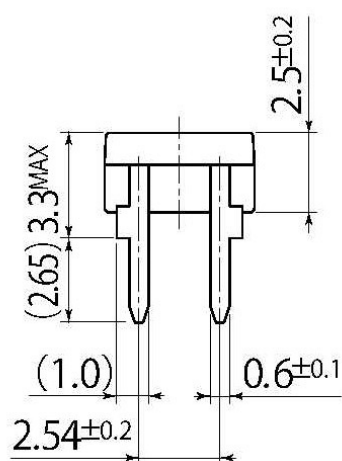
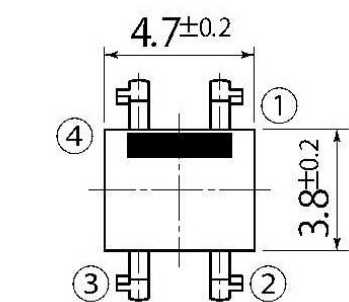


Derating Curve (DIP)



C3

JEDEC Code	—
JEITA Code	—
House Name	1Z(DIP)



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