

S1ZB80-7101

Bridge Diodes
800V, 0.8A

Feature

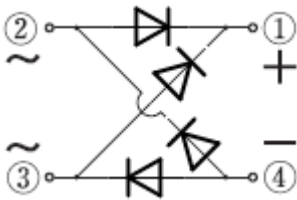
- Small DIP (There is also SMD)
- High Reliability
- Pb free terminal
- RoHS:Yes

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		150	°C
Repetitive peak reverse voltage	VRRM		800	V
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≤t<10ms, Tj=25°C, per diode	4.5	A²s

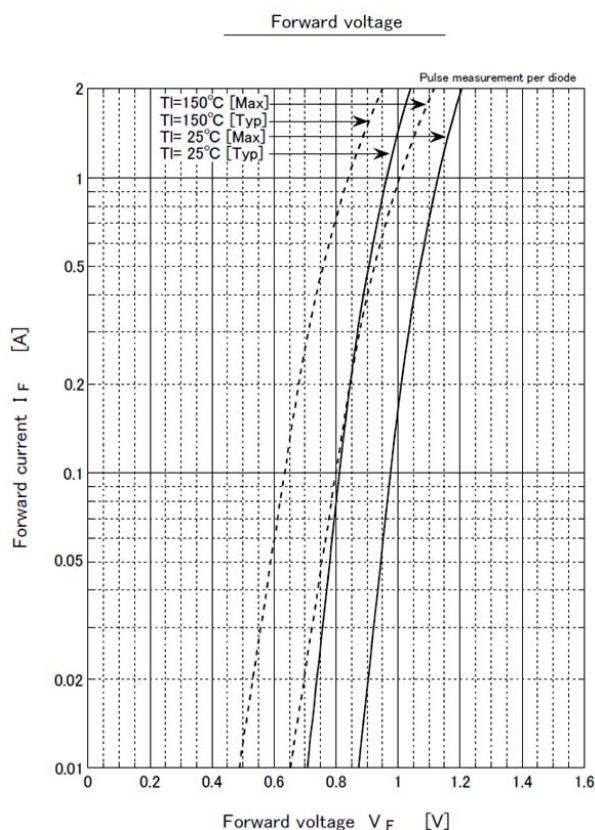
※ :See the original Specifications

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

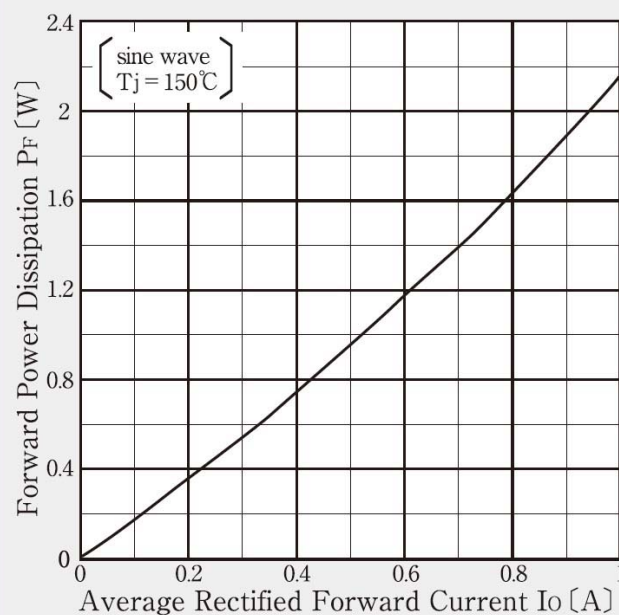
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V_F	$I_F=0.4A$, Pulse measurement, per diode			1.05	V
Reverse current	I_R	$V_R=800V$, Pulse measurement, per diode			10	μA
Thermal resistance	$R_{th(j-l)}$	Junction to lead			20	$^{\circ}C/W$
Thermal resistance	$R_{th(j-a)}$	Junction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

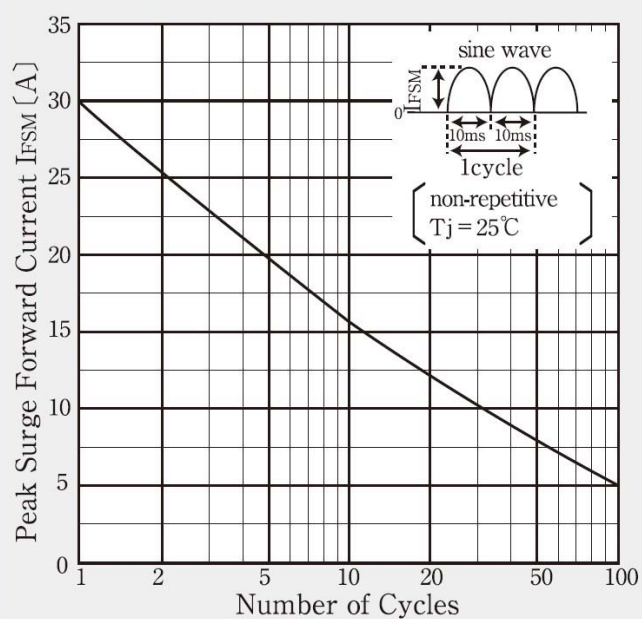
CHARACTERISTIC DIAGRAMS



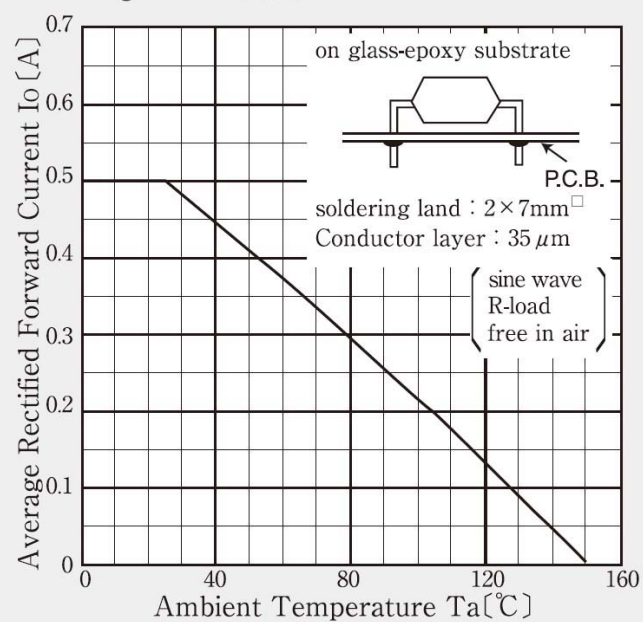
Forward Power Dissipation



Peak Surge Forward Current Capability

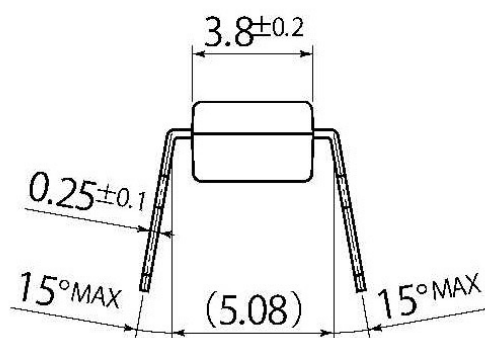
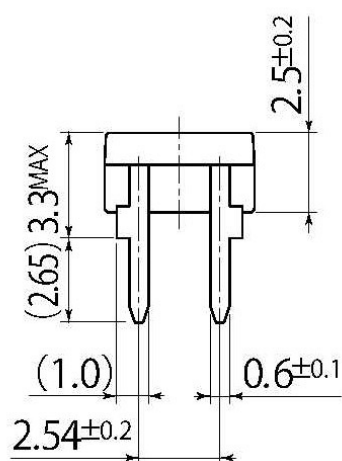
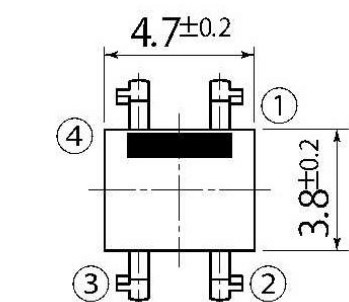


Derating Curve (DIP)



C3

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



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