

S1NBC80-7101

Bridge Diodes

800V, 1.5A

Feature

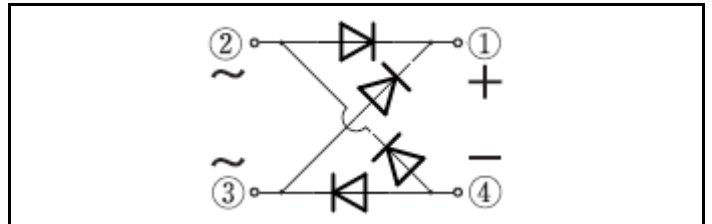
- Small DIP (There is also SMD)
- High I_{FSM}
- Pin-distance 3.4mm for isolation
- Pb free terminal
- RoHS:Yes

OUTLINE

Package (House Name): 1NA



Equivalent circuit



Absolute Maximum Ratings (unless otherwise specified : $T_I=25^{\circ}C$)

Item	Symbol	Conditions	Ratings	Unit
Storage temperature	T_{stg}		-55 to 150	$^{\circ}C$
Junction temperature	T_j		-55 to 150	$^{\circ}C$
Repetitive peak reverse voltage	V_{RRM}		800	V
Average forward current	$I_F(AV)$	50Hz sine wave, Resistance load, $T_I=105^{\circ}C$	1.5	A
Average forward current	$I_F(AV)$	50Hz sine wave, Resistance load, On glass-epoxy substrate, $T_a=27^{\circ}C$ *	1	A
Average forward current	$I_F(AV)$	50Hz, Sine wave, Resistance load, On glass-epoxy substrate, $T_a=25^{\circ}C$ *	0.84	A
Surge forward current	I_{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, $T_j=25^{\circ}C$	60	A
Current squared time	I^2t	$1ms \leq t < 10ms$, $T_j=25^{\circ}C$, per diode	10	A^2s

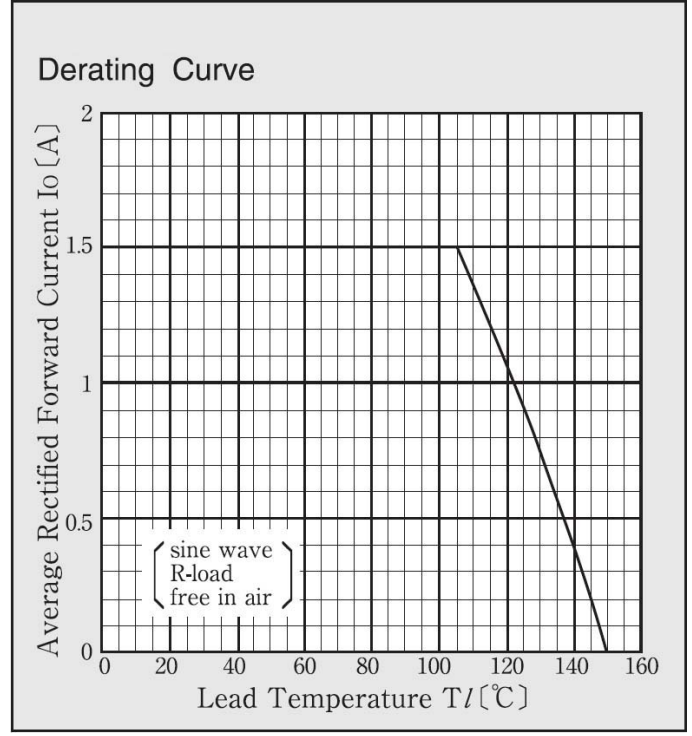
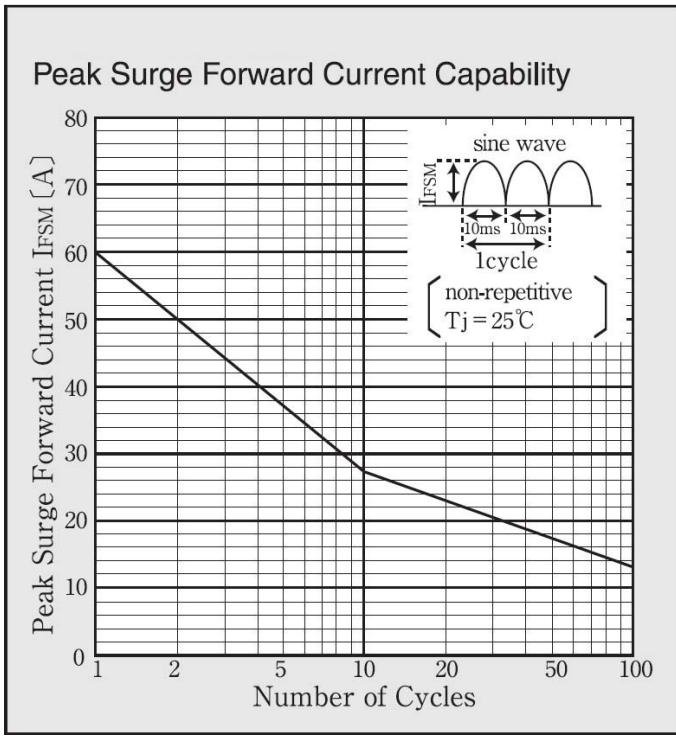
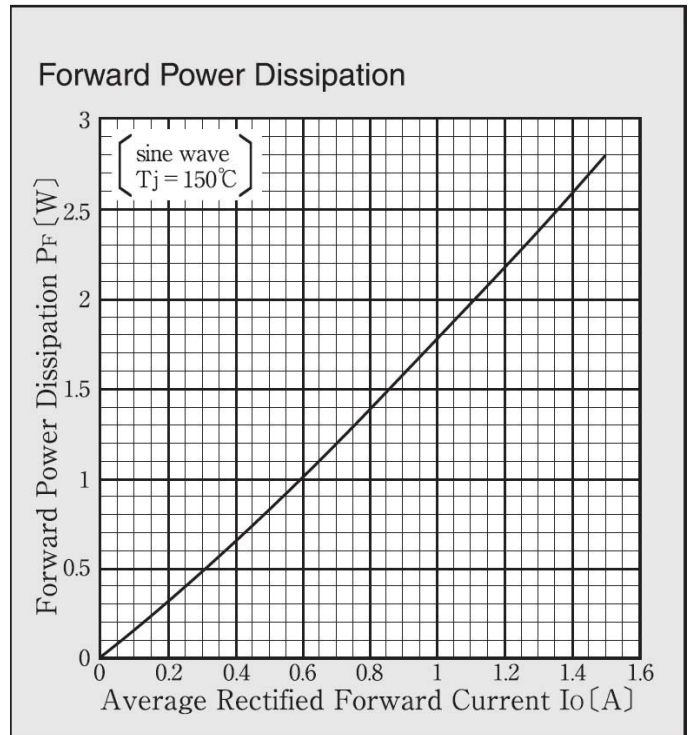
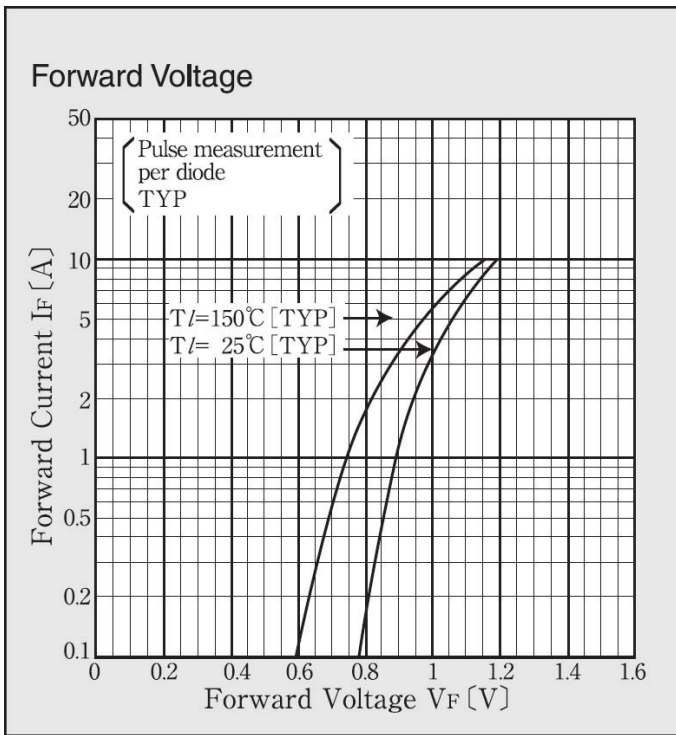
* : See the original Specifications

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

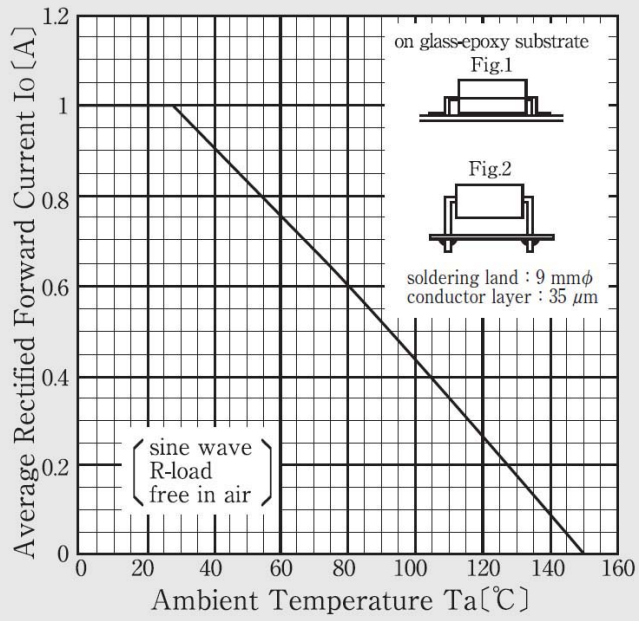
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V_F	$I_F=0.75A$, Pulse measurement, per diode			1.05	V
Reverse current	I_R	$V_R=800V$, Pulse measurement, per diode			10	μA
Thermal resistance	$R_{th(j-l)}$	Junction to lead			15	$^{\circ}C/W$
Thermal resistance	$R_{th(j-a)}$	Junction to ambient, On glass-epoxy substrate *			68	$^{\circ}C/W$
Thermal resistance	$R_{th(j-a)}$	Junction to ambient, On glass-epoxy substrate *			84	$^{\circ}C/W$

* :See the original Specifications

CHARACTERISTIC DIAGRAMS

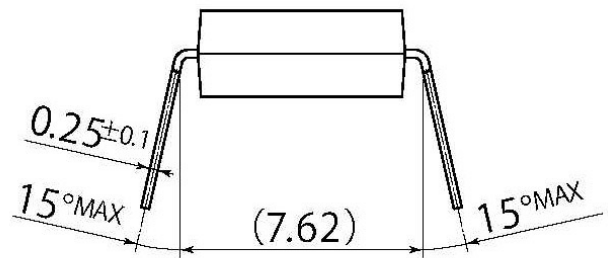
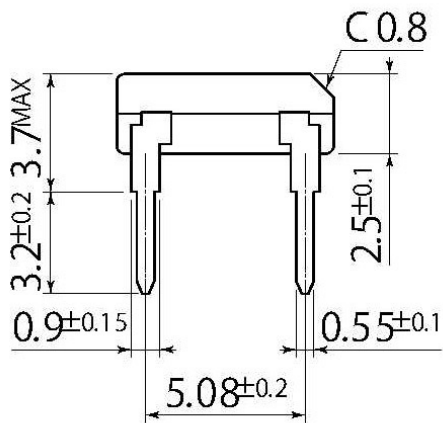
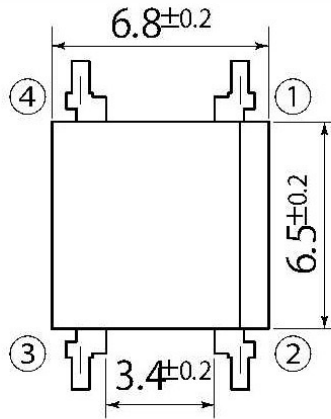


Derating Curve



C7

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



Notes

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