

# S1NBC80-7101

## Bridge Diodes

800V, 1.5A

### Feature

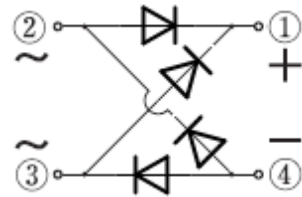
- Small DIP (There is also SMD)
- High  $I_{FSM}$
- Pin-distance 3.4mm for isolation
- Pb free terminal
- RoHS:Yes

### OUTLINE

Package (House Name): 1NA



### Equivalent circuit



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

Item	Symbol	Conditions	Ratings	Unit
Storage temperature	Tstg		-55 to 150	°C
Junction temperature	Tj		-55 to 150	°C
Repetitive peak reverse voltage	$V_{RRM}$		800	V
Average forward current	$I_F(AV)$	50Hz sine wave, Resistance load, Tl=105°C	1.5	A
Average forward current	$I_F(AV)$	50Hz sine wave, Resistance load, On glass-epoxy substrate, Ta=27°C ※	1	A
Average forward current	$I_F(AV)$	50Hz, Sine wave, Resistance load, On glass-epoxy substrate, Ta=25°C ※	0.84	A
Surge forward current	$I_{FSM}$	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C	60	A
Current squared time	$I^2t$	1ms ≤ t < 10ms, Tj=25°C, per diode	10	A <sup>2</sup> s

※ : See the original Specifications

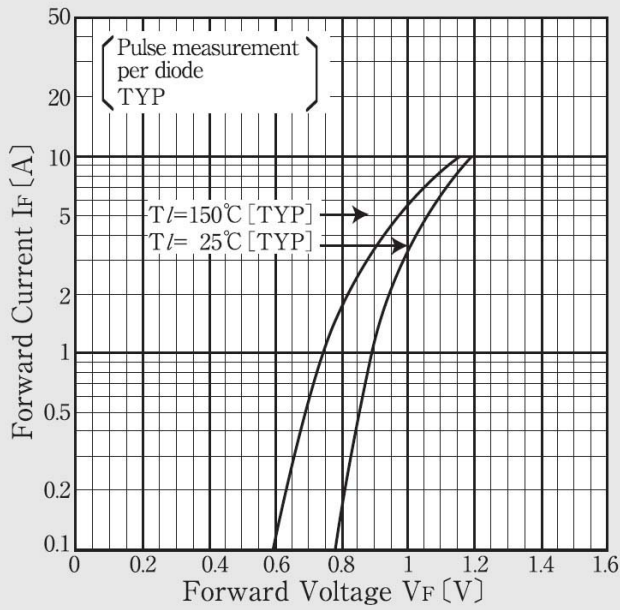
**Electrical Characteristics** (unless otherwise specified : Tl=25°C)

Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	$V_F$	IF=0.75A, Pulse measurement, per diode			1.05	V
Reverse current	$I_R$	VR=800V, Pulse measurement, per diode			10	$\mu$ A
Thermal resistance	Rth(j-l)	Junction to lead			15	°C/W
Thermal resistance	Rth(j-a)	Junction to ambient, On glass-epoxy substrate ※			68	°C/W
Thermal resistance	Rth(j-a)	Junction to ambient, On glass-epoxy substrate ※			84	°C/W

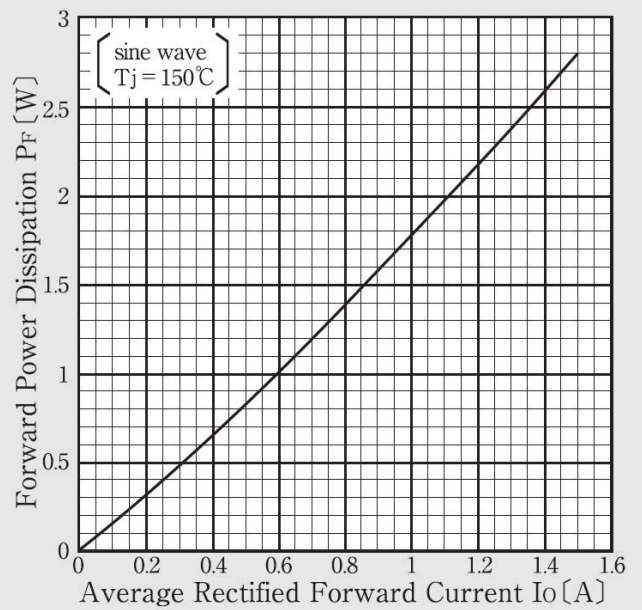
※ :See the original Specifications

# CHARACTERISTIC DIAGRAMS

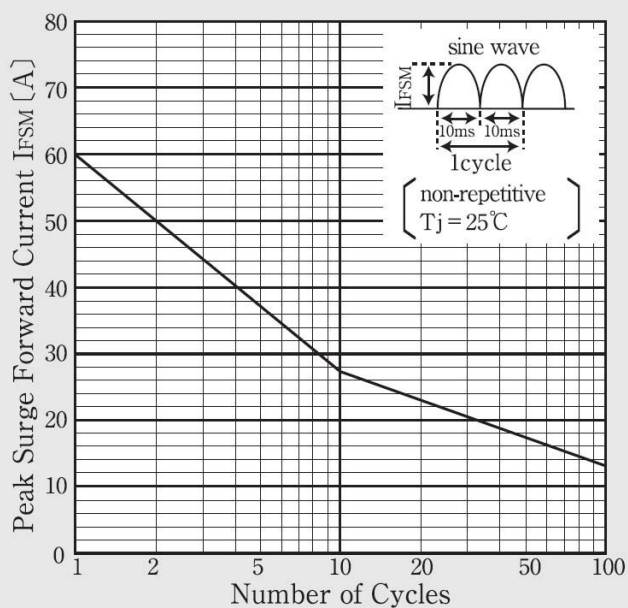
### Forward Voltage



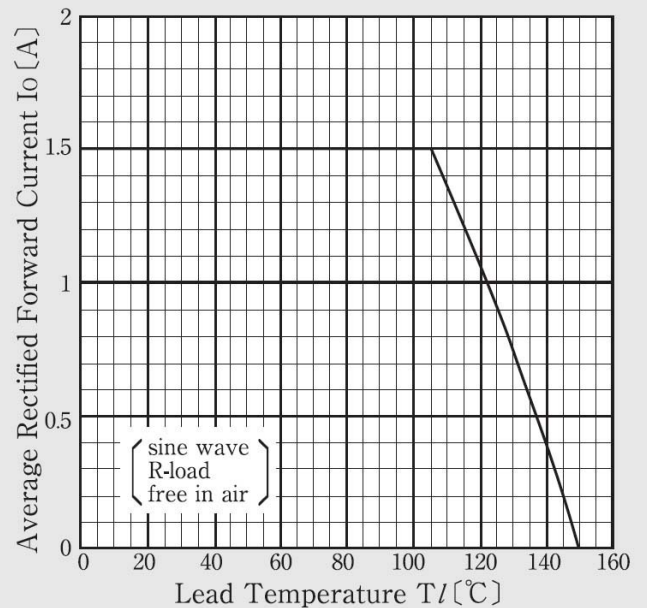
### Forward Power Dissipation



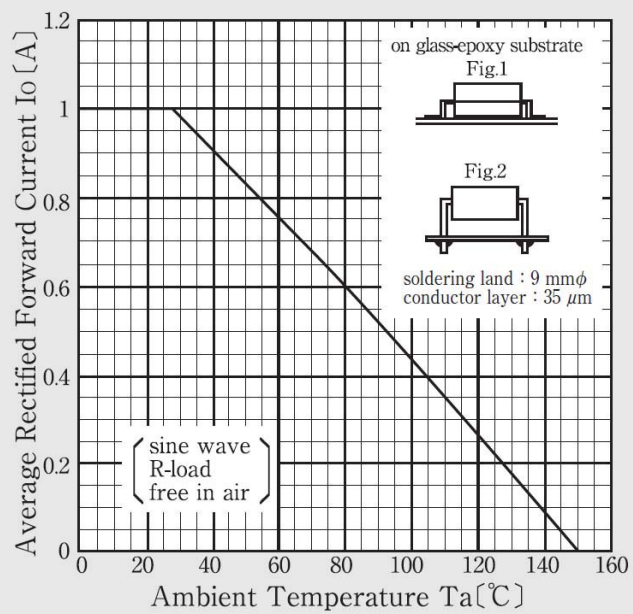
### Peak Surge Forward Current Capability



### Derating Curve



### Derating Curve



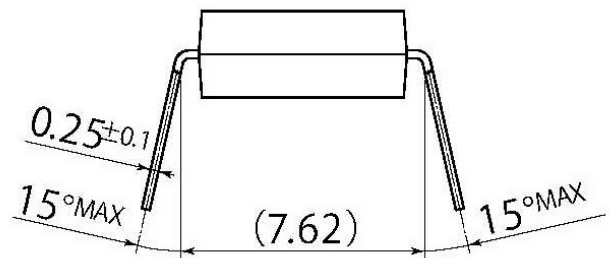
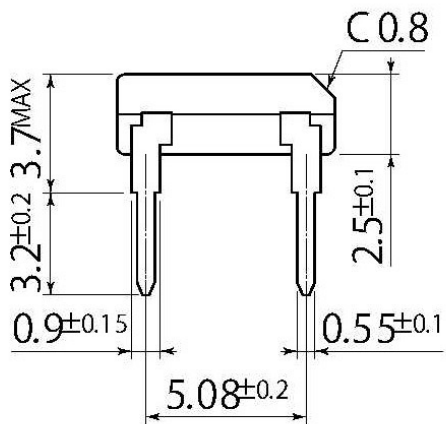
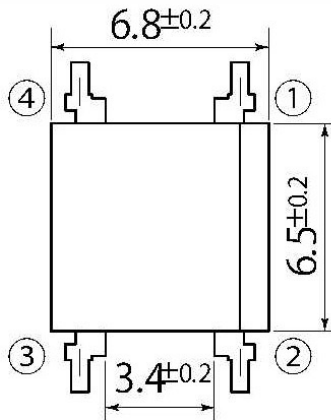
# Outline Dimensions

unit:mm

scale: 4/1

C7

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



## Notes

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