

# S1NBC80-7101

## Bridge Diodes

800V, 1.5A

### Feature

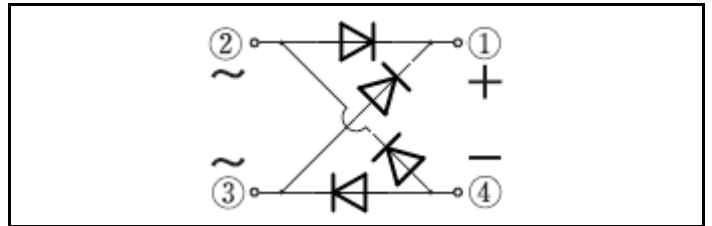
- Small DIP (There is also SMD)
- High  $I_{FSM}$
- Pin-distance 3.4mm for isolation
- Pb free terminal
- RoHS:Yes

### OUTLINE

Package (House Name): 1NA



### Equivalent circuit



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

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

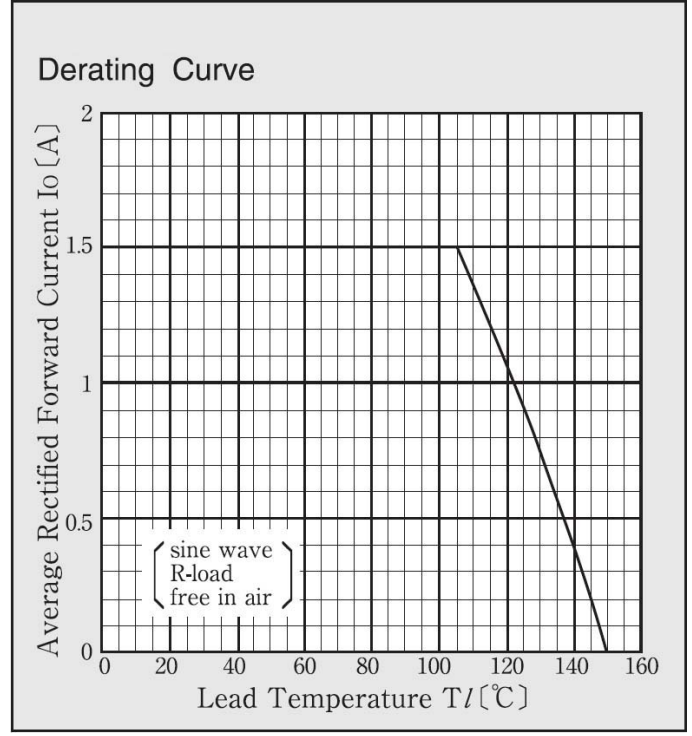
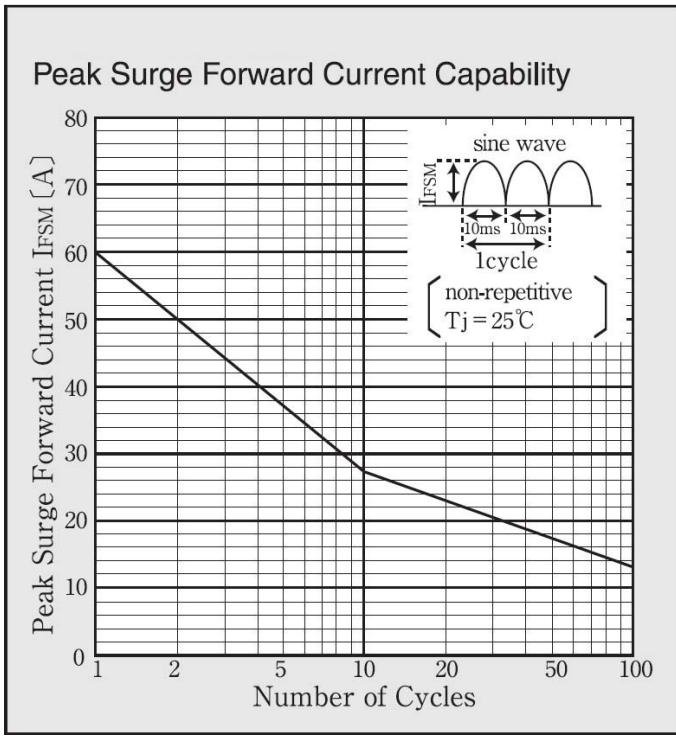
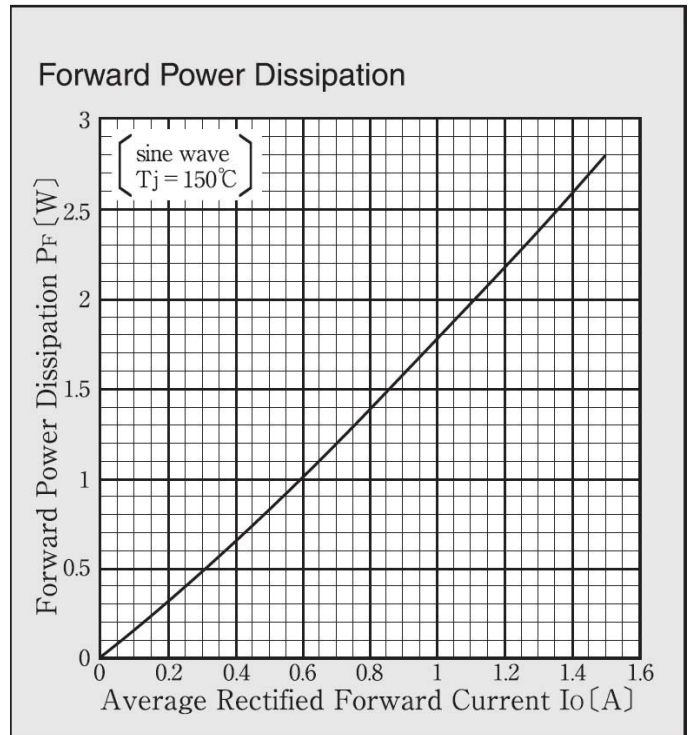
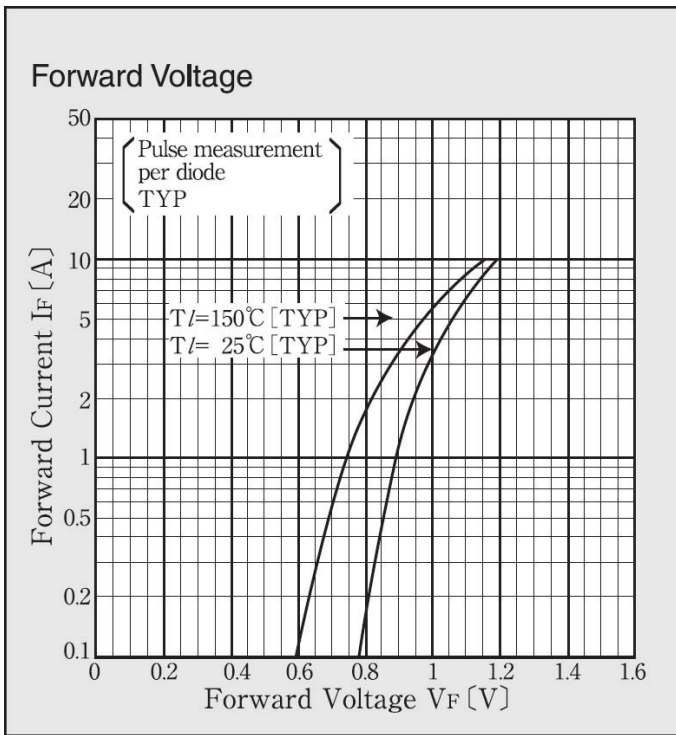
\* : See the original Specifications

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

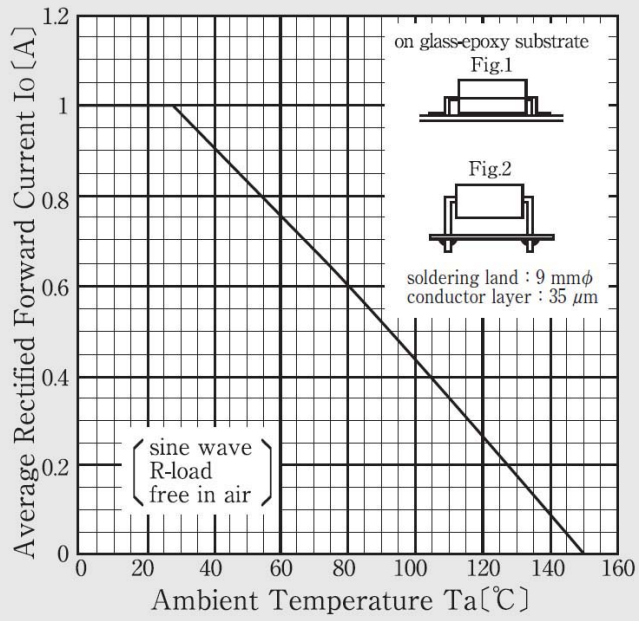
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	$V_F$	$I_F=0.75A$ , Pulse measurement, per diode			1.05	V
Reverse current	$I_R$	$V_R=800V$ , Pulse measurement, per diode			10	$\mu A$
Thermal resistance	$R_{th(j-l)}$	Junction to lead			15	$^{\circ}C/W$
Thermal resistance	$R_{th(j-a)}$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

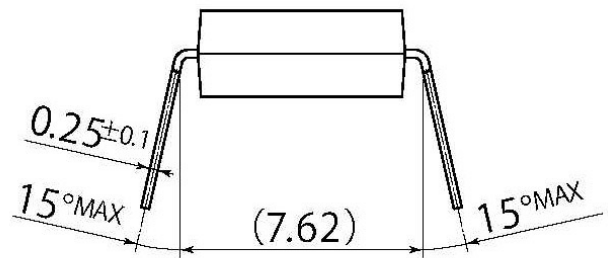
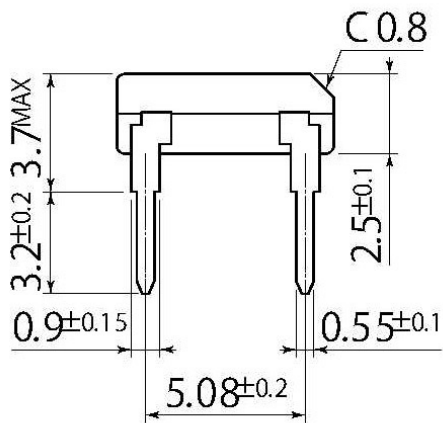
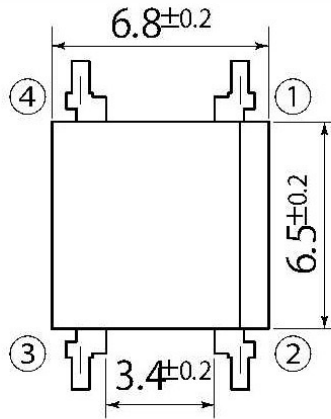


### Derating Curve



C7

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



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