# S1NBC80-7101 Bridge Diodes

800V, 1.5A

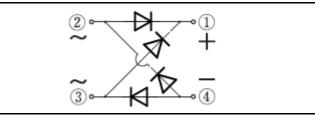
## Feature

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

## OUTLINE



## **Equivalent circuit**



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

Item	Symbol	Conditions	Ratings	Unit
Storage temperrature	Tstg		-55 to 150	°C
Junction temperature	Tj		-55 to 150	°C
Repetitive peak reverse voltage	V <sub>RRM</sub>		800	V
Average forward current	I <sub>F</sub> (AV)	50Hz sine wave, Resistance load, TI=105°C	1.5	А
Average forward current	I <sub>F</sub> (AV)	50Hz sine wave, Resistance load, On glass-epoxy substrate, Ta=27°C *	1	A
Average forward current	I <sub>F</sub> (AV)	50Hz, Sine wave, Resistance load, On glass-epoxy substrate, Ta=25°C *	0.84	A
Surge forward current	I <sub>FSM</sub>	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C	60	A
Current squared time	l²t	1ms≦t<10ms, Tj=25°C, per diode	10	A <sup>2</sup> s

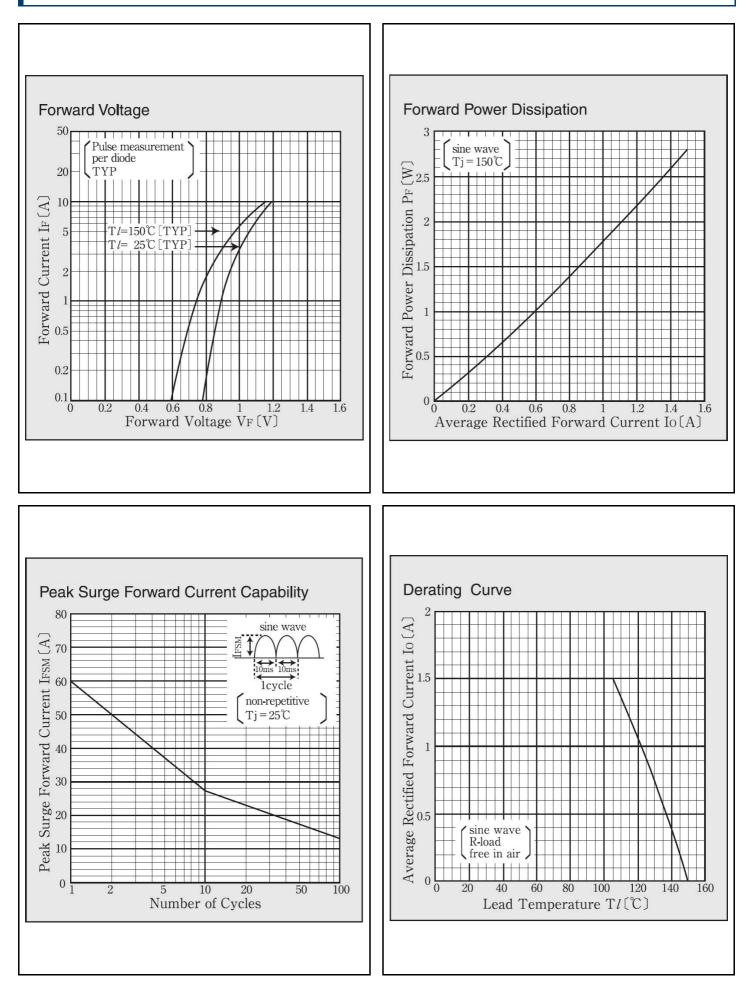
\* : See the original Specifications

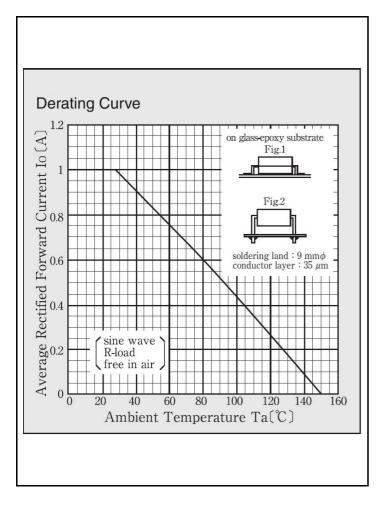
<b>Electrical Characteristics</b>	(unless otherwise specified : TI=25°C)

Item	Symbol	Conditions	Ratings			Unit
			MIN	ТҮР	MAX	
Forward voltage	V <sub>F</sub>	IF=0.75A, Pulse measurement, per diode			1.05	V
Reverse current	I <sub>R</sub>	VR=800V, Pulse measurement, per diode			10	μA
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

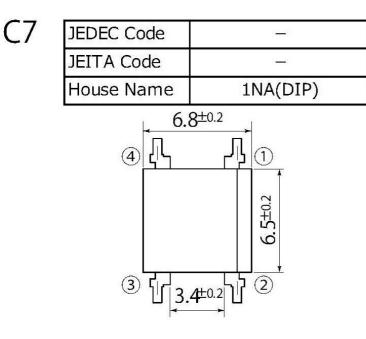
# **CHARACTERISTIC DIAGRAMS**

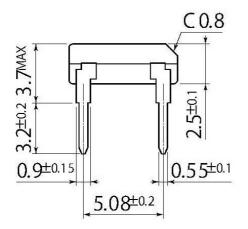


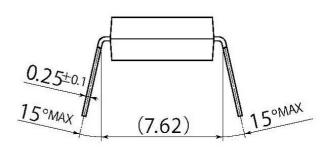


unit:mm

scale: 4/1







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