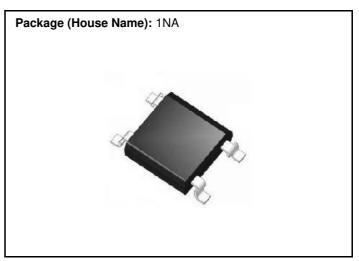
S2NBC100-7062

Bridge Diodes 1000V, 2A

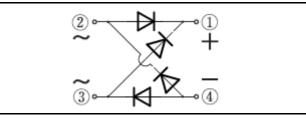
Feature

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

OUTLINE



Equivalent circuit



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

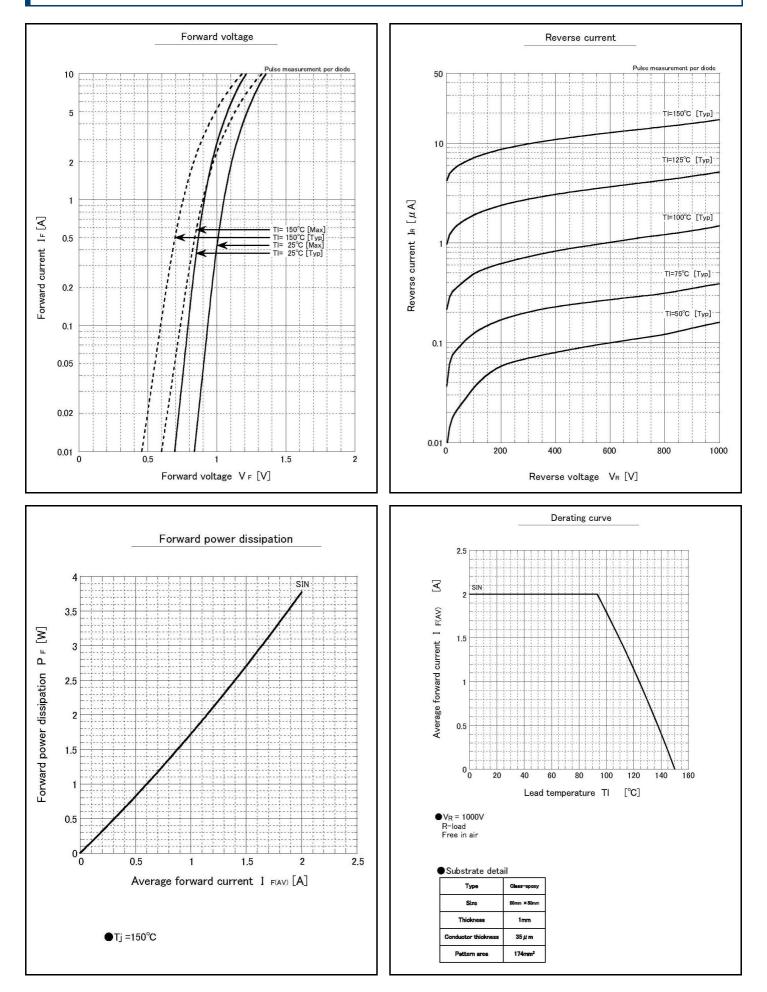
Item	Symbol	Conditions	Ratings	Unit
Storage temperrature	Tstg		-55 to 150	°C
Junction temperature	Tj		-55 to 150	°C
Repetitive peak reverse voltage	V _{RRM}		1000	V
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, On glass-epoxy substrate TI=93°C *	2	A
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, On glass-epoxy substrate, Ta=25°C *	1	A
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, On glass-epoxy substrate, Ta=25°C *	0.87	A
Surge forward current	I _{FSM}	60Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C	65	A
Surge forward current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C	60	A
Surge forward current	I _{FSM1}	tp=1ms, sine wave, Non-repetitive, peak value, per diode, Tj=25°C	141	А

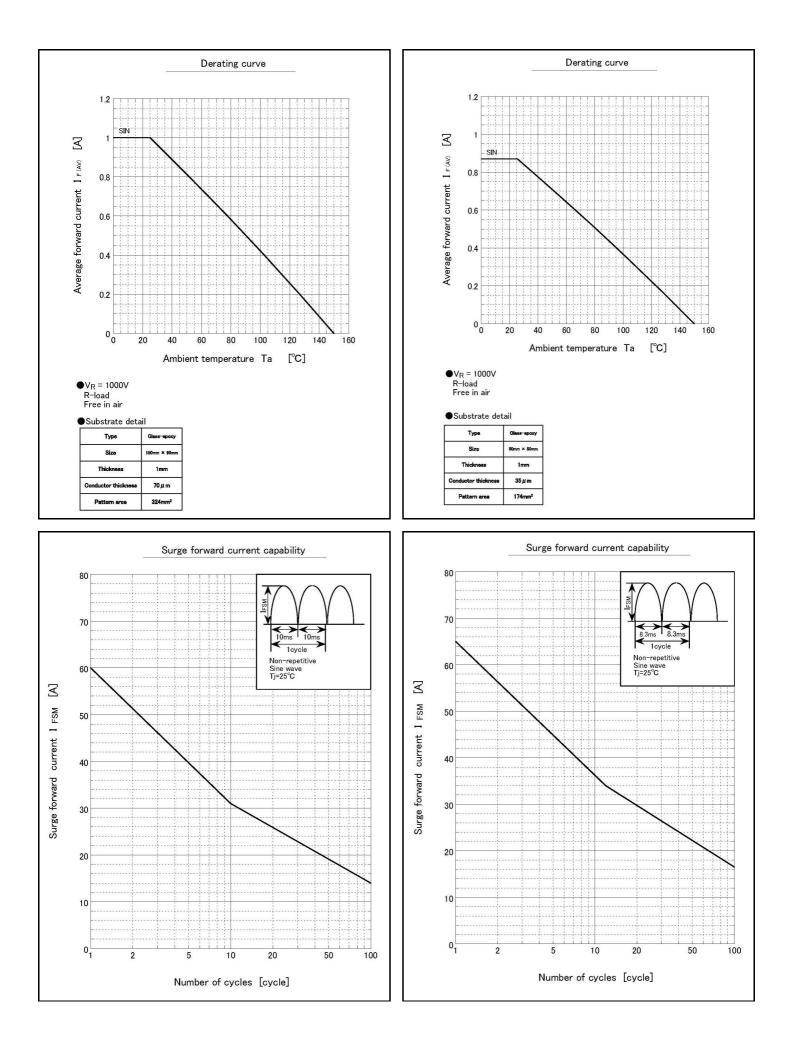
* : See the original Specifications

Electrical Characteristics (unless otherwise specified : TI=25°C)								
Item	Symbol	Conditions	Ratings			Unit		
	Symbol		MIN	ТҮР	MAX			
Forward voltage	V _F	IF=1A, Pulse measurement, per diode			1.05	V		
Reverse current	I _R	VR=1000V, Pulse measurement, per diode			10	μA		
Total capacitance	Ct	f=1MHz, VR=10V		12.3		pF		
Thermal resistance	Rth(j-l)	Junction to lead, On glass-epoxy substrate *			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		

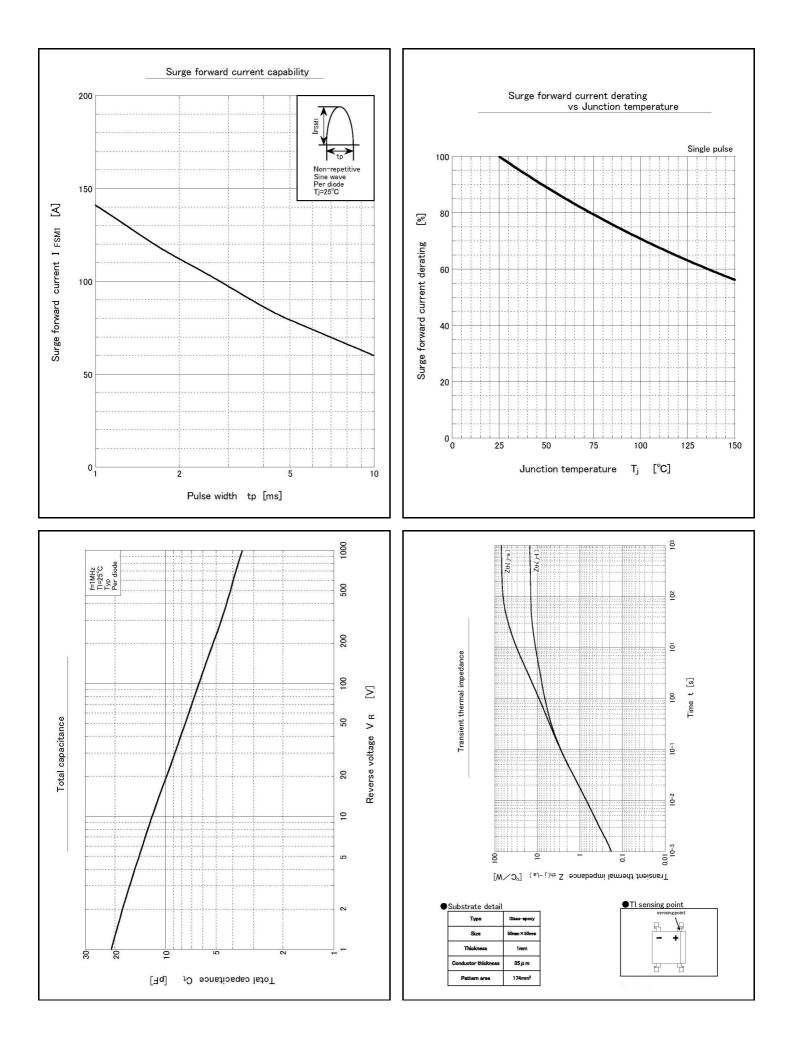
* : See the original Specifications

CHARACTERISTIC DIAGRAMS



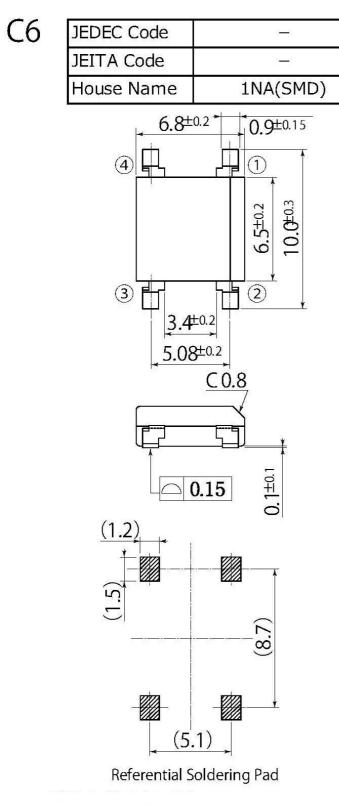


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unit:mm

scale: 4/1



• Optimize soldering pad to the board design and soldering condition.

2.6±0.2

1.0^{±0.2}

.25年0.1

1.0^{±0.2}

Notes

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