

S1NAD80

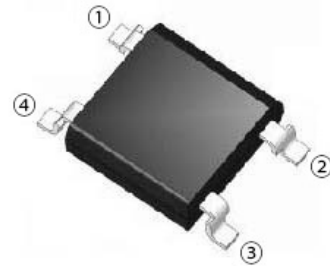
General Rectifying Diodes
800V, 3A

Feature

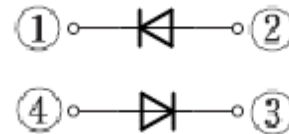
- Small DIP
- Pb free terminal
- RoHS:Yes

OUTLINE

Package (House Name): 1NA(SMD)



Equivalent circuit



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

Item	Symbol	Conditions	Ratings	Unit
Storage temperature	T_{stg}		-55 to 150	°C
Junction temperature	T_j		150	°C
Repetitive peak reverse voltage	V_{RRM}		800	V
Average forward current	$I_{F(AV)}$	50Hz sine wave, Resistance load, On glass-epoxy substrate, Tl=102°C	3	A
Average forward current	$I_{F(AV)}$	50Hz sine wave, Resistance load, On glass-epoxy substrate, Ta=31°C	1.5	A
Surge forward current	I_{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C	110	A
Current squared time	I^2t	$1ms \leq tp < 10ms$, Tj=25°C, per diode	60	A ² s

※ : See the original Specifications

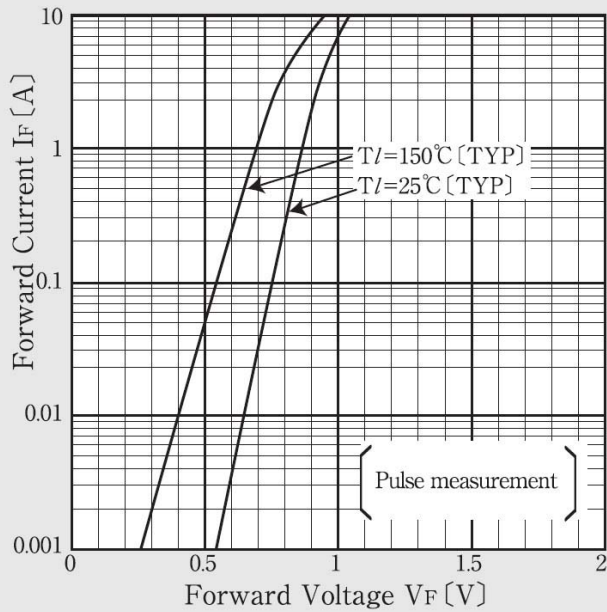
Electrical Characteristics (unless otherwise specified : Tl=25°C)

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	μ A
Thermal resistance	$R_{th(j-l)}$	Junction to lead, On glass-epoxy substrate			15	°C/W
Thermal resistance	$R_{th(j-a)}$	Junction to ambient, On glass-epoxy substrate ※			84	°C/W

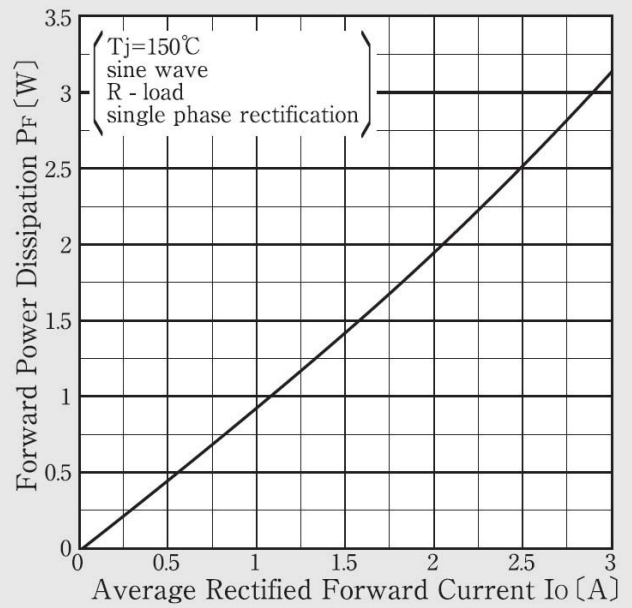
※ :See the original Specifications

CHARACTERISTIC DIAGRAMS

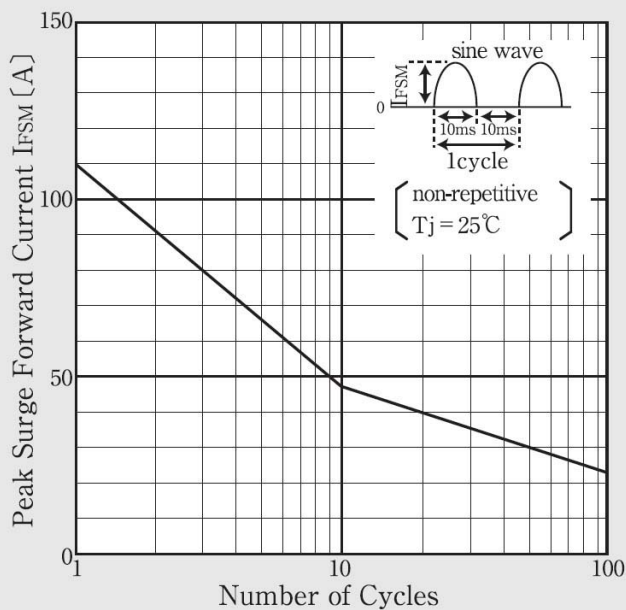
Forward Voltage



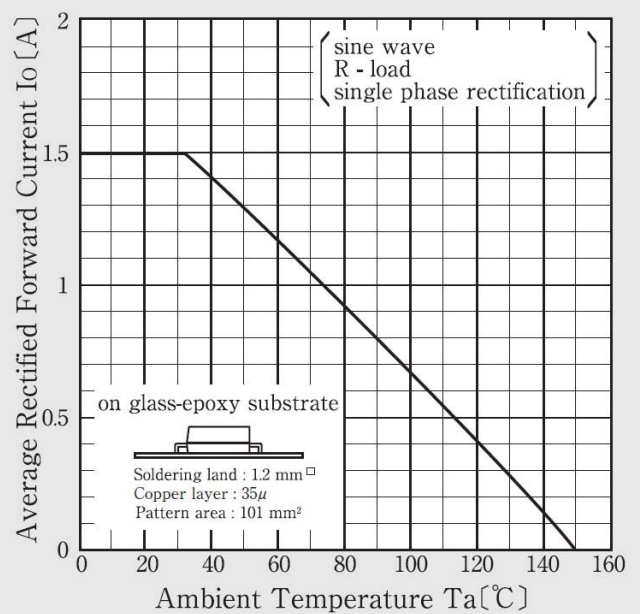
Forward Power Dissipation



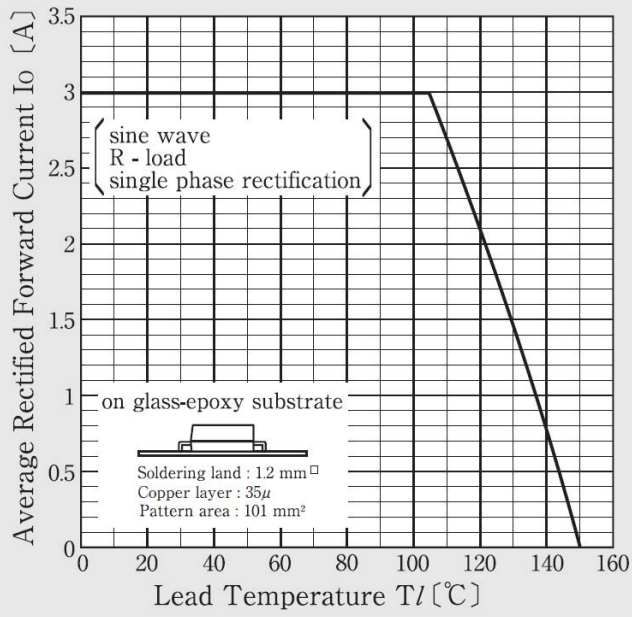
Peak Surge Forward Current Capability



Derating Curve

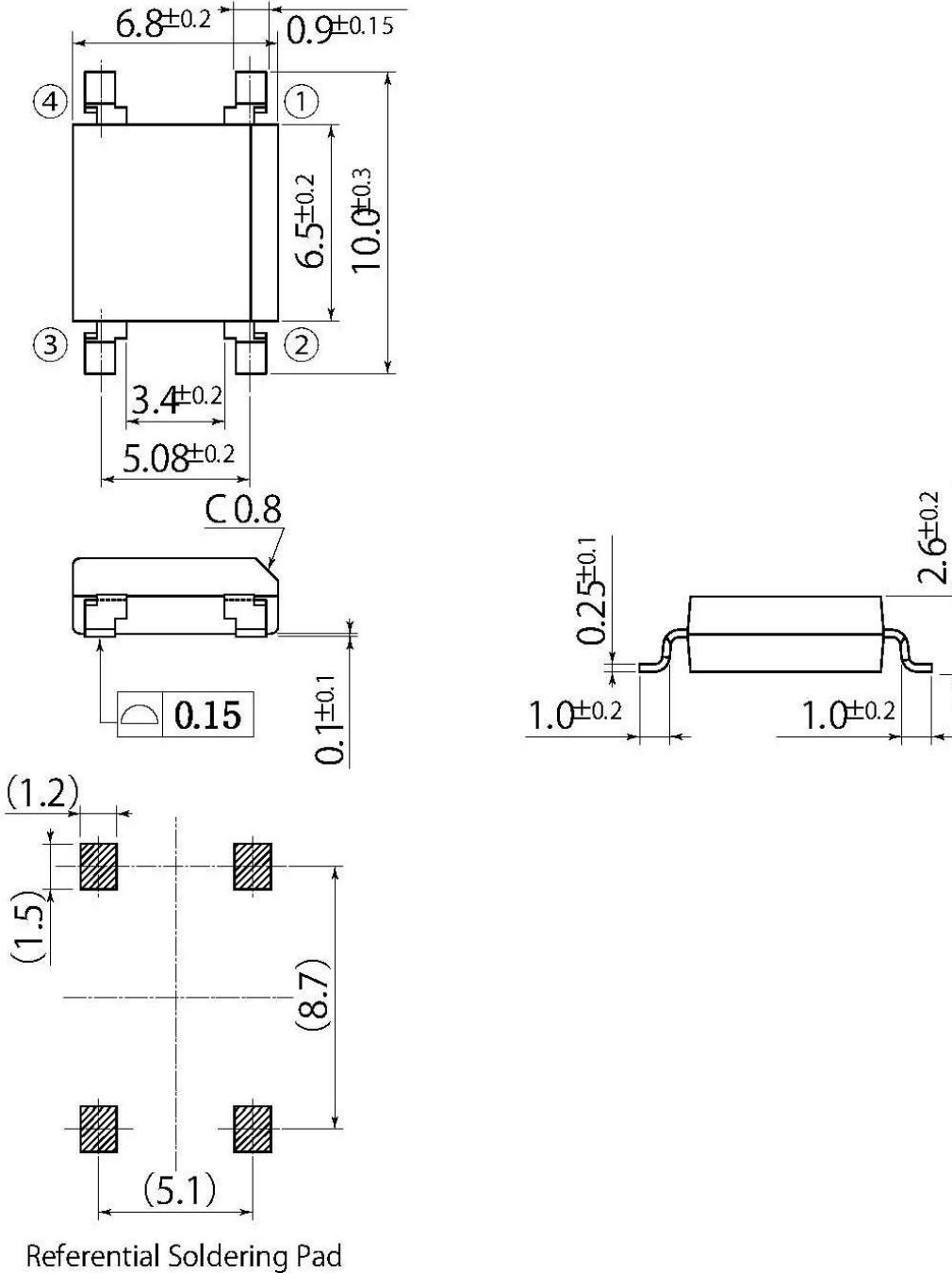


Derating Curve



C6

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



Referential Soldering Pad

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

Notes

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