

# S1NAD80

General Rectifying Diodes

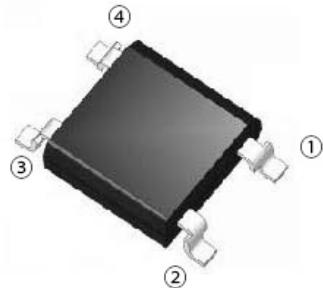
800V, 3A

## Feature

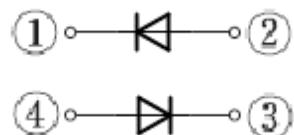
- Small DIP
- Pb free terminal
- RoHS:Yes

## OUTLINE

Package (House Name): 1NA(SMD)



## Equivalent circuit



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

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

※ :See the original Specifications

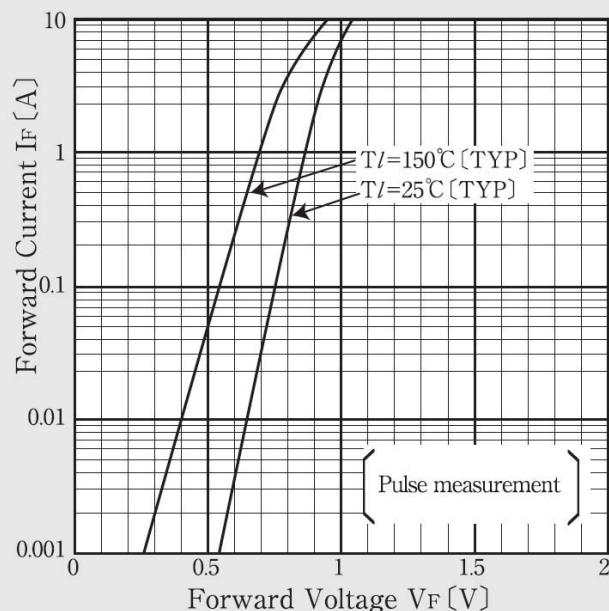
**Electrical Characteristics** (unless otherwise specified : Tl=25°C)

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

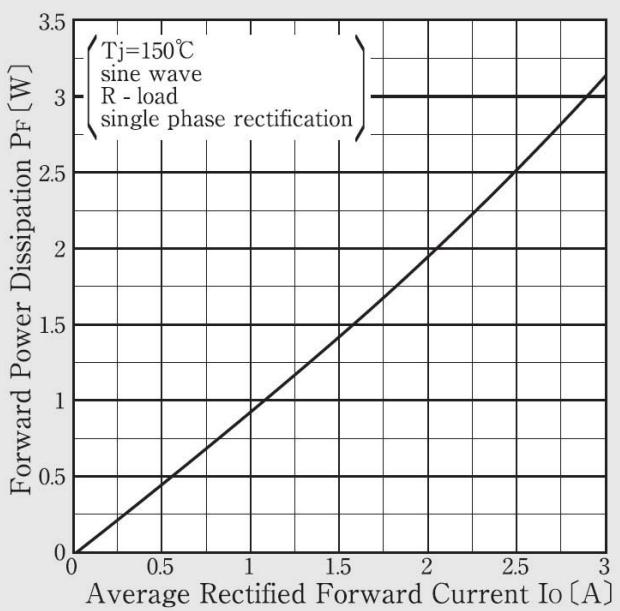
※ :See the original Specifications

## CHARACTERISTIC DIAGRAMS

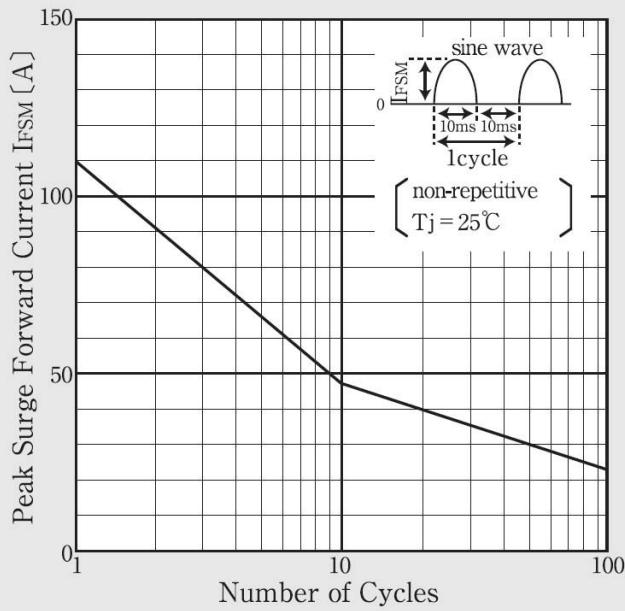
Forward Voltage



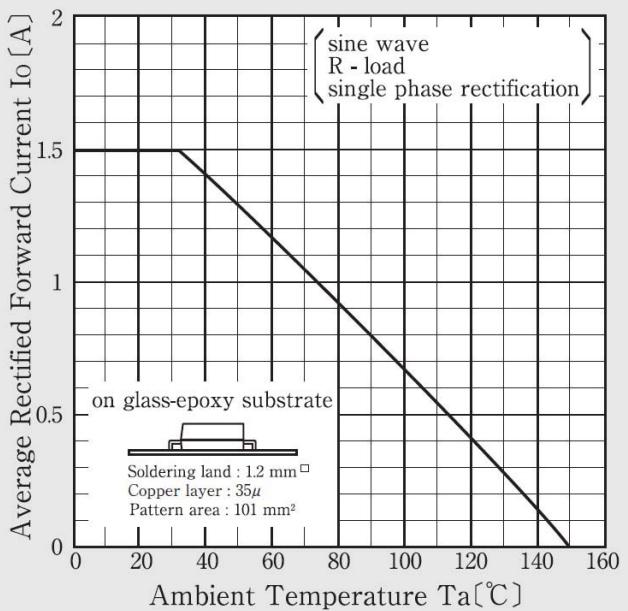
Forward Power Dissipation

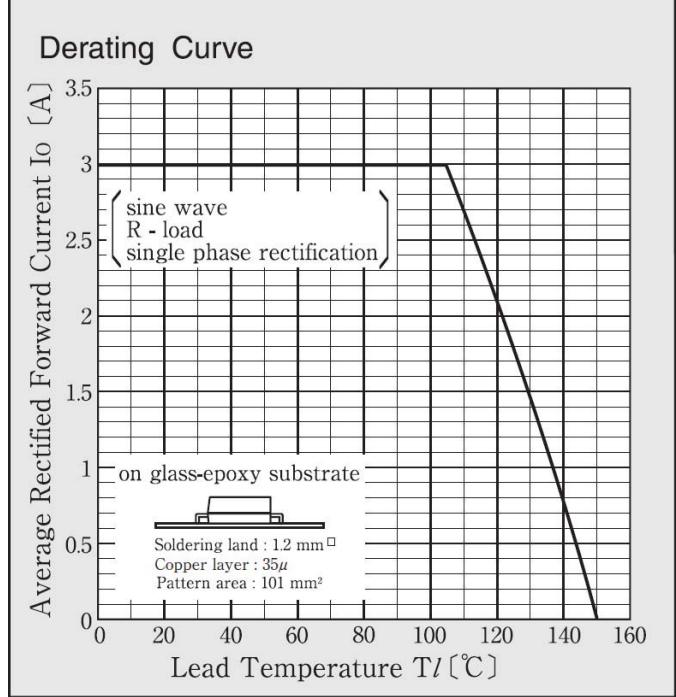


Peak Surge Forward Current Capability



Derating Curve





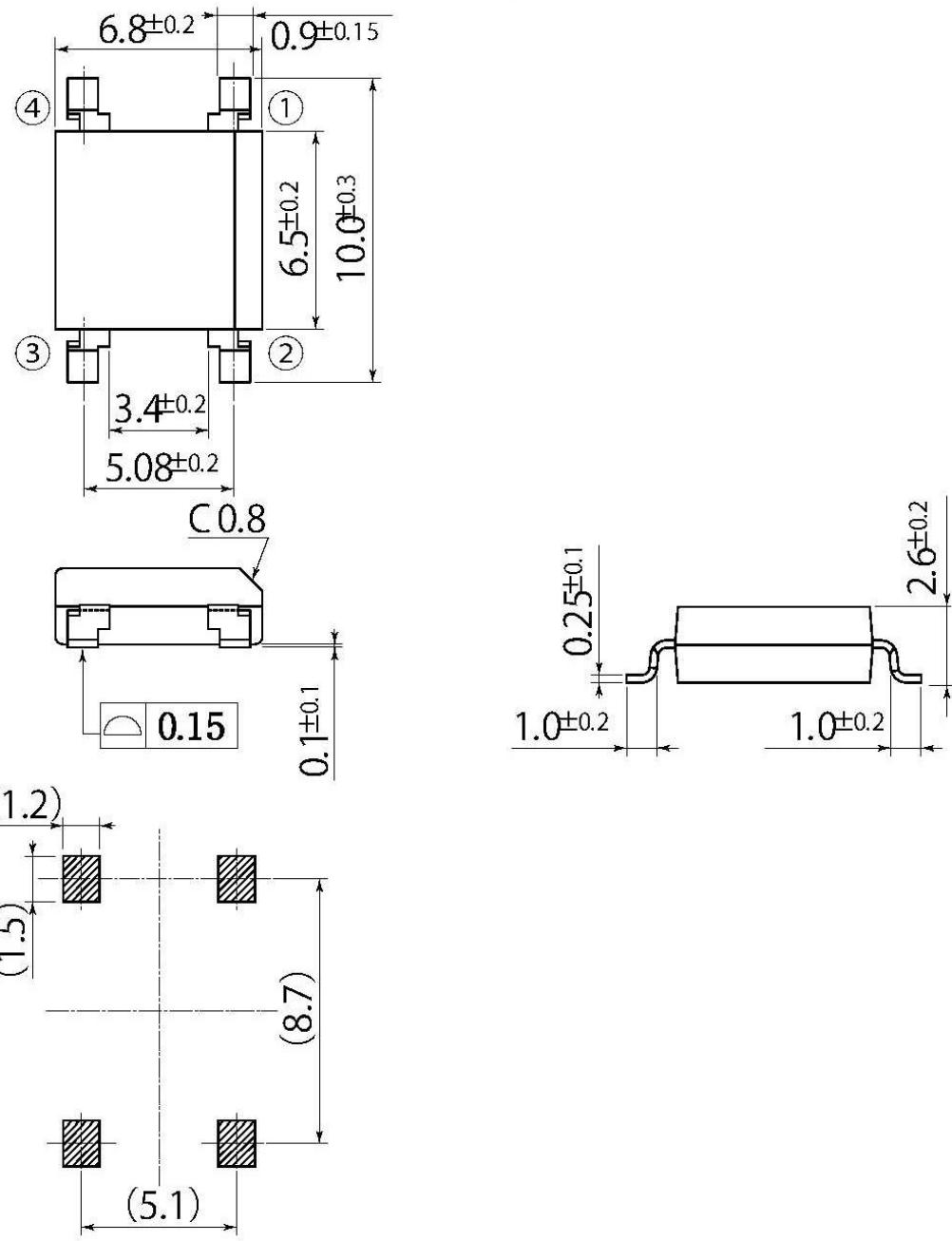
## Outline Dimensions

unit:mm

scale: 4/1

C6

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



## Notes

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### 【Special applications】

Transportation equipment (vehicles, ships, etc.), trunk-line communication equipment, traffic signal control systems, anti-disaster/crime systems, safety equipment, medical equipment, etc.

### 【Specific applications】

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