

# D1N60

## General Rectifying Diodes

600V, 1.0A

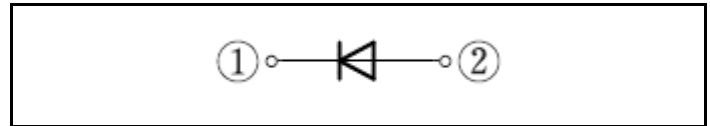
### Feature

- High Voltage
- Pb free terminal
- RoHS:Yes

### OUTLINE



### Equivalent circuit



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

Item	Symbol	Conditions	Ratings	Unit
Storage temperature	T <sub>stg</sub>		-55 to 150	°C
Junction temperature	T <sub>j</sub>		-55 to 150	°C
Repetitive peak reverse voltage	V <sub>RRM</sub>		600	V
Average forward current	I <sub>F(AV)</sub>	50Hz sine wave, Resistance load, On glass-epoxy substrate, Tl=138°C *	1	A
Average forward current	I <sub>F(AV)</sub>	50Hz sine wave, Resistance load, On glass-epoxy substrate, Ta=25°C *	1	A
Surge forward current	I <sub>FSM</sub>	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C	30	A
Current squared time	I <sup>2</sup> t	1ms ≤ tp < 10ms, Tj=25°C	4.5	A <sup>2</sup> s

\* :See the original Specifications

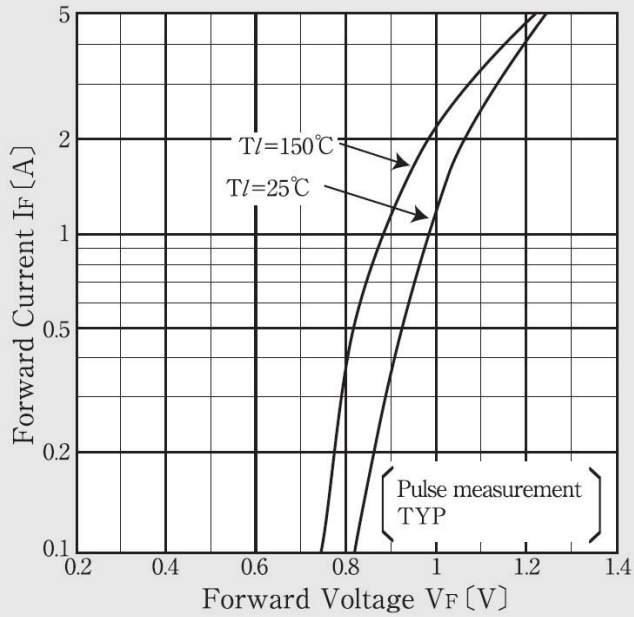
**Electrical Characteristics** (unless otherwise specified : Tl=25°C)

Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	$V_F$	$I_F=1A$ , Pulse measurement			1.05	V
Reverse current	$I_R$	$V_R=600V$ , Pulse measurement			10	$\mu A$
Thermal resistance	$R_{th(j-l)}$	Junction to lead, On glass-epoxy substrate *			10	$^{\circ}C/W$
Thermal resistance	$R_{th(j-a)}$	Junction to ambient, On glass-epoxy substrate *			113	$^{\circ}C/W$

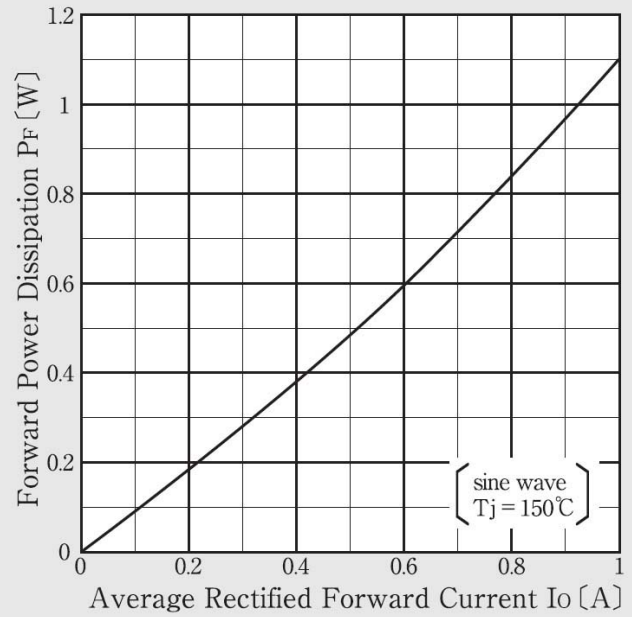
\* : See the original Specifications

# CHARACTERISTIC DIAGRAMS

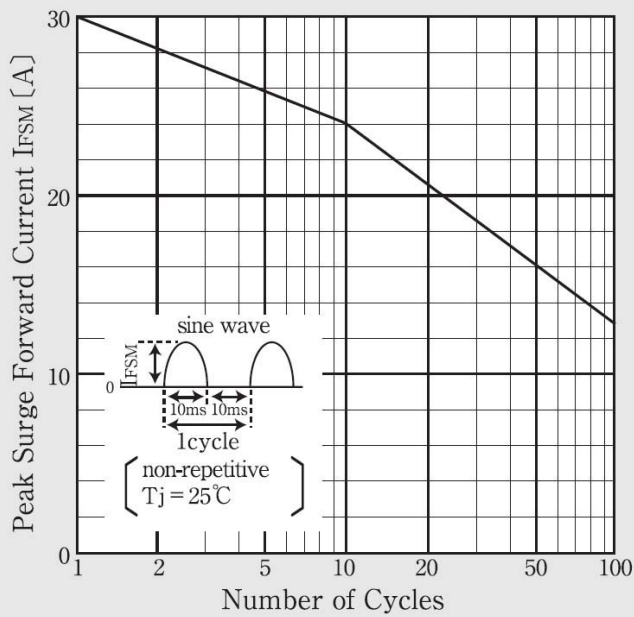
### Forward Voltage



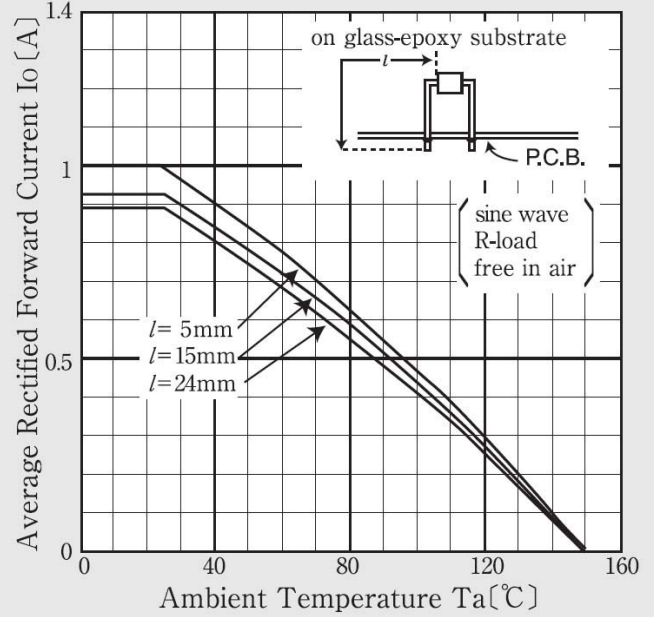
### Forward Power Dissipation



### Peak Surge Forward Current Capability



### Derating Curve



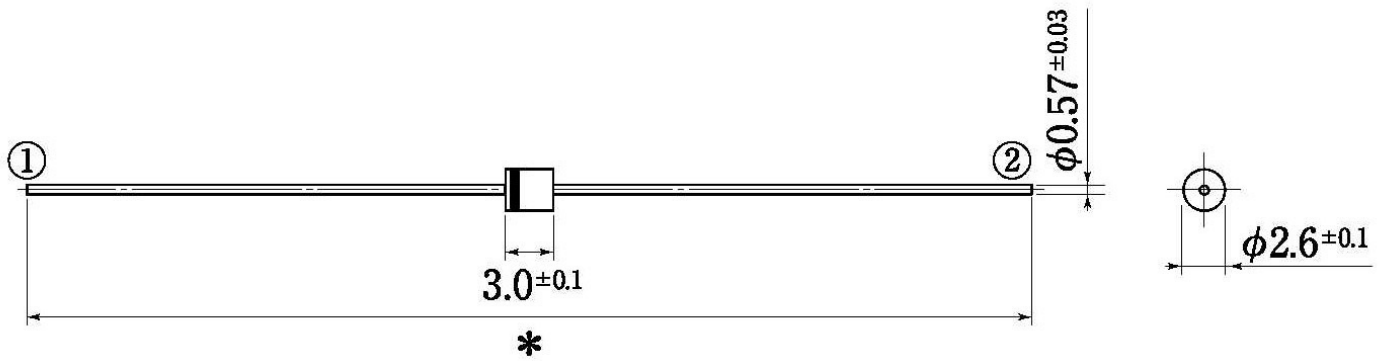
# Outline Dimensions

unit:mm

scale: 2/1

## A1

JEDEC Code	—
JEITA Code	—
House Name	AX057



\*  $\left( \begin{array}{l} 26.0^{+1.5}_{-0.0} \text{ (Spec Code: 5070)} \\ 52.0^{+2.0}_{-1.0} \text{ (Spec Code: 5060)} \end{array} \right)$

## Notes

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