

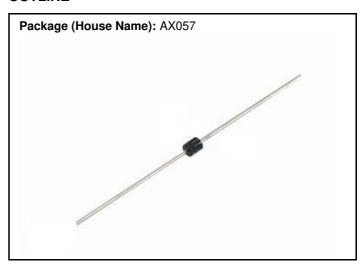
## **D1N80**

# **General Rectifying Diodes** 800V, 1.0A

## **Feature**

- High Voltage
- Pb free terminal
- RoHS:Yes

## **OUTLINE**



## **Equivalent circuit**



## Absolute Maximum Ratings (unless otherwise specified : TI=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	$V_{RRM}$		800	V
Average forward current	I <sub>F</sub> (AV)	50Hz sine wave, Resistance load, On glass-epoxy substrate, Tl=138°C *	1	А
Average forward current	I <sub>F</sub> (AV)	50Hz sine wave, Resistance load, On glass-epoxy substrate, Ta=25°C *	1	А
Surge forward current	I <sub>FSM</sub>	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C	30	А
Surge forward current	I <sub>FSM1</sub>	tp=1ms, sine wave, Non-repetitive, peak value, Tj=25°C	62	А

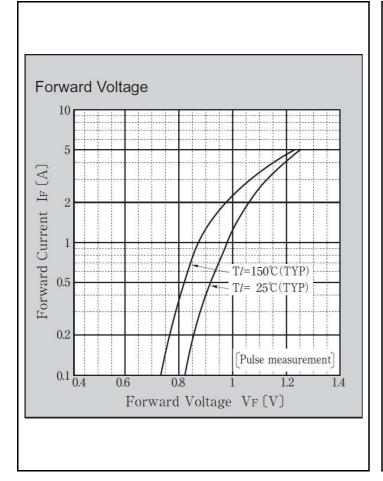
<sup>\* :</sup> See the original Specifications

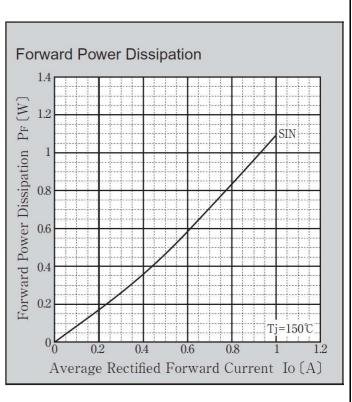
## **Electrical Characteristics** (unless otherwise specified : TI=25°C)

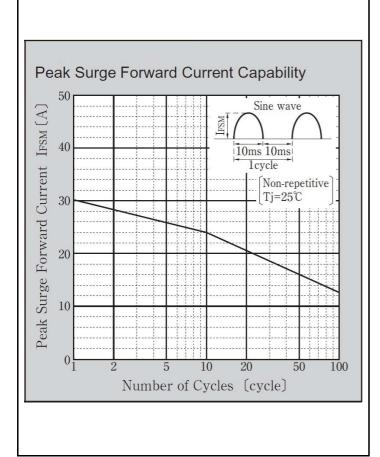
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	O.III
Forward voltage	V <sub>F</sub>	IF=1A, Pulse measurement			1.05	V
Reverse current	I <sub>R</sub>	VR=800V, Pulse measurement			10	μΑ
Thermal resistance	Rth(j-l)	Junction to lead, On glass-epoxy substrate *			10	°C/W
Thermal resistance	Rth(j-a)	Junction to ambient, On glass-epoxy substrate *			113	°C/W

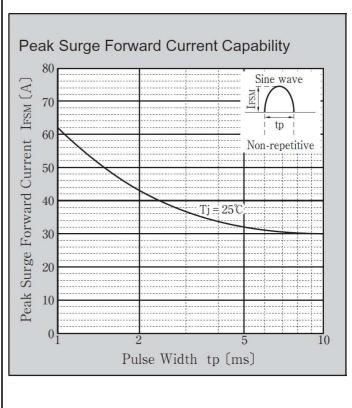
<sup>\*</sup> :See the original Specifications

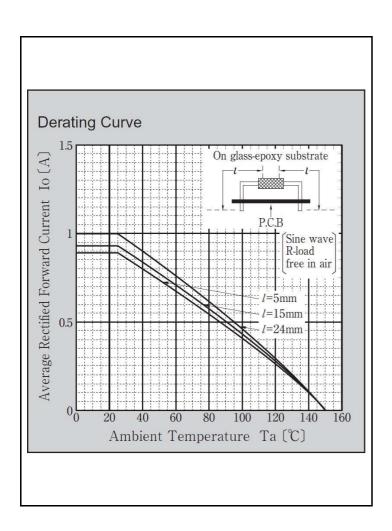
## **CHARACTERISTIC DIAGRAMS**







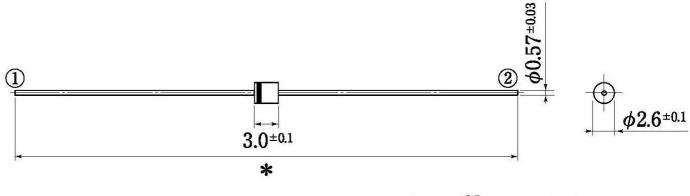




scale: 2/1

**A**1

JEDEC Code	-		
JEITA Code	1		
House Name	AX057		



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

#### **Notes**

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## [Special applications]

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### (Specific applications)

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