

# SHINDENGEN

## General Purpose Rectifiers

Single

# D1N60

## 600V 1A

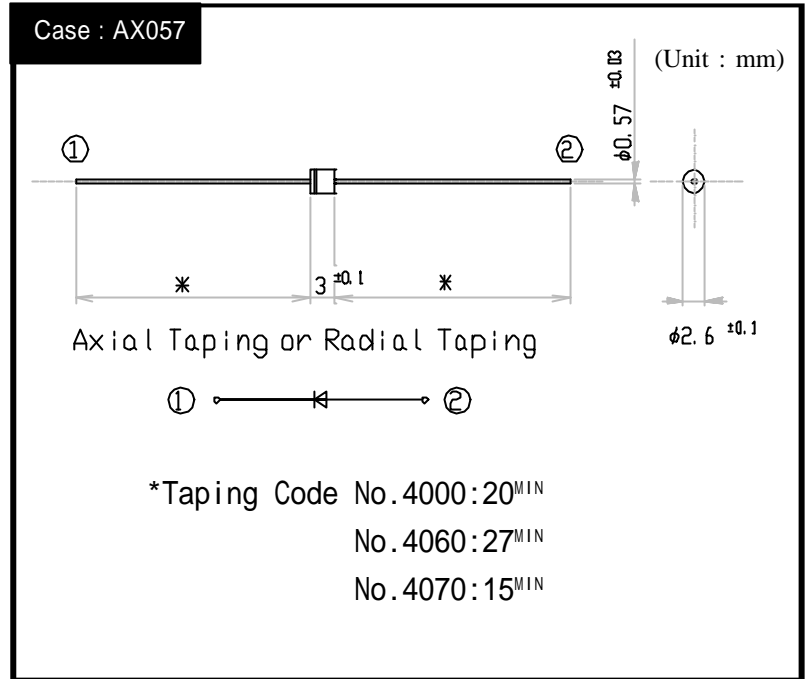
### FEATURES

- High voltage
- High reliability with superior moisture resistance
- 5 mm pitch mounting applicable

### APPLICATION

- Conventional Rectification
- Power source(Power Supply)
- Home Appliances, Office Equipment
- Telecommunication, Factory Automation

## OUTLINE DIMENSIONS



## RATINGS

Absolute Maximum Ratings (If not specified Tl=25 )

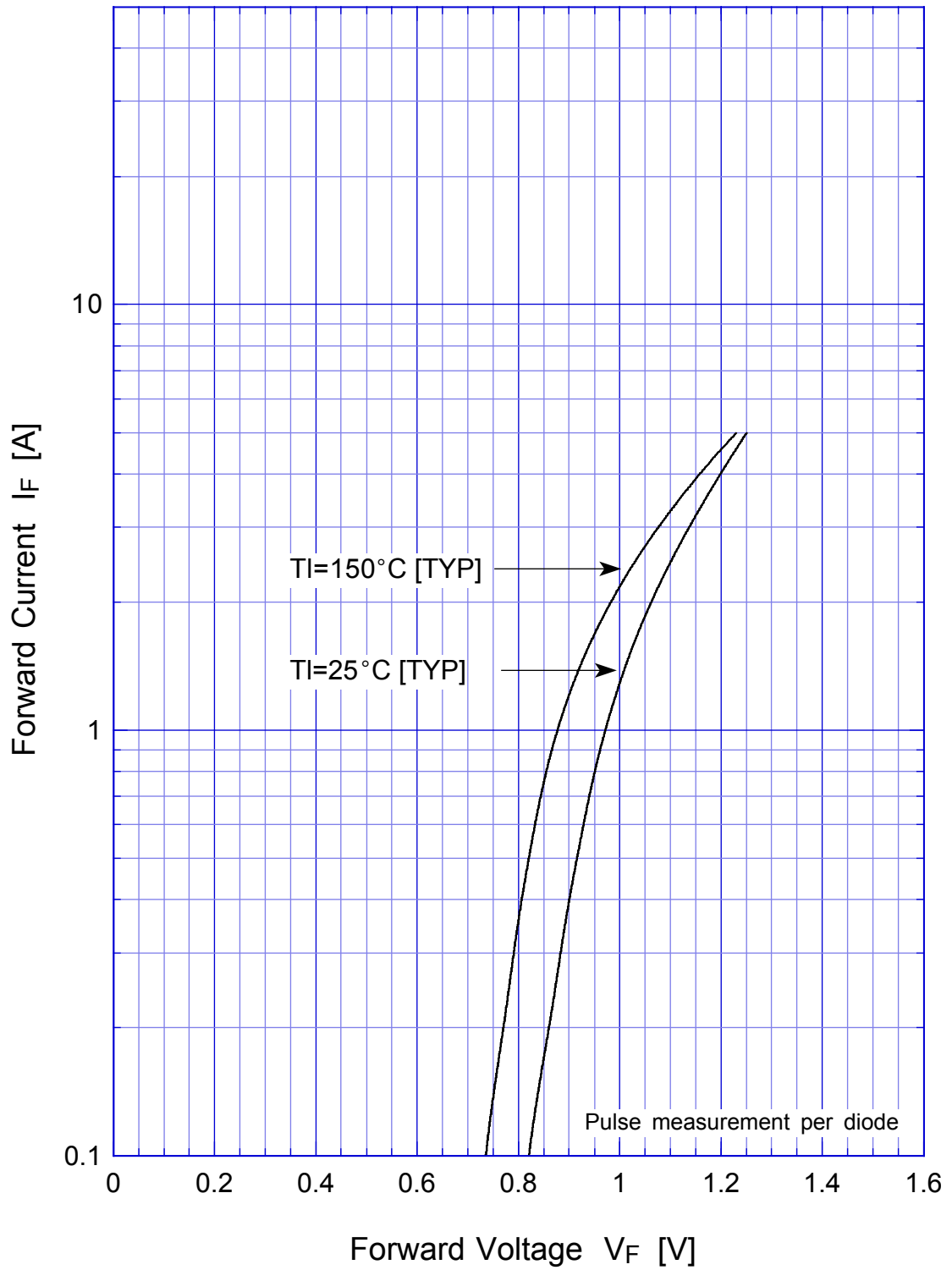
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-55 ~ 150	
Operating Junction Temperature	Tj		150	
Maximum Reverse Voltage	V <sub>RM</sub>		600	V
Average Rectified Forward Current	I <sub>O</sub>	50Hz sine wave, R-load, On glass-epoxy substrate Ta=25	1	A
Peak Surge Forward Current	I <sub>FSM</sub>	50Hz sine wave, Non-repetitive 1cycle peak value, Tj=25	30	A
Current Squared Time	I <sup>2</sup> t	1ms t < 10ms Tj=25	4.5	A <sup>2</sup> s

Electrical Characteristics (If not specified Tl=25 )

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> =1A, Pulse measurement	Max.1.05	V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> =V <sub>RM</sub> , Pulse measurement	Max.10	μA
Thermal Resistance	j-l	junction to lead	Max.10	/W
	j-a	junction to ambient. On glass-epoxy substrate	Max.113	

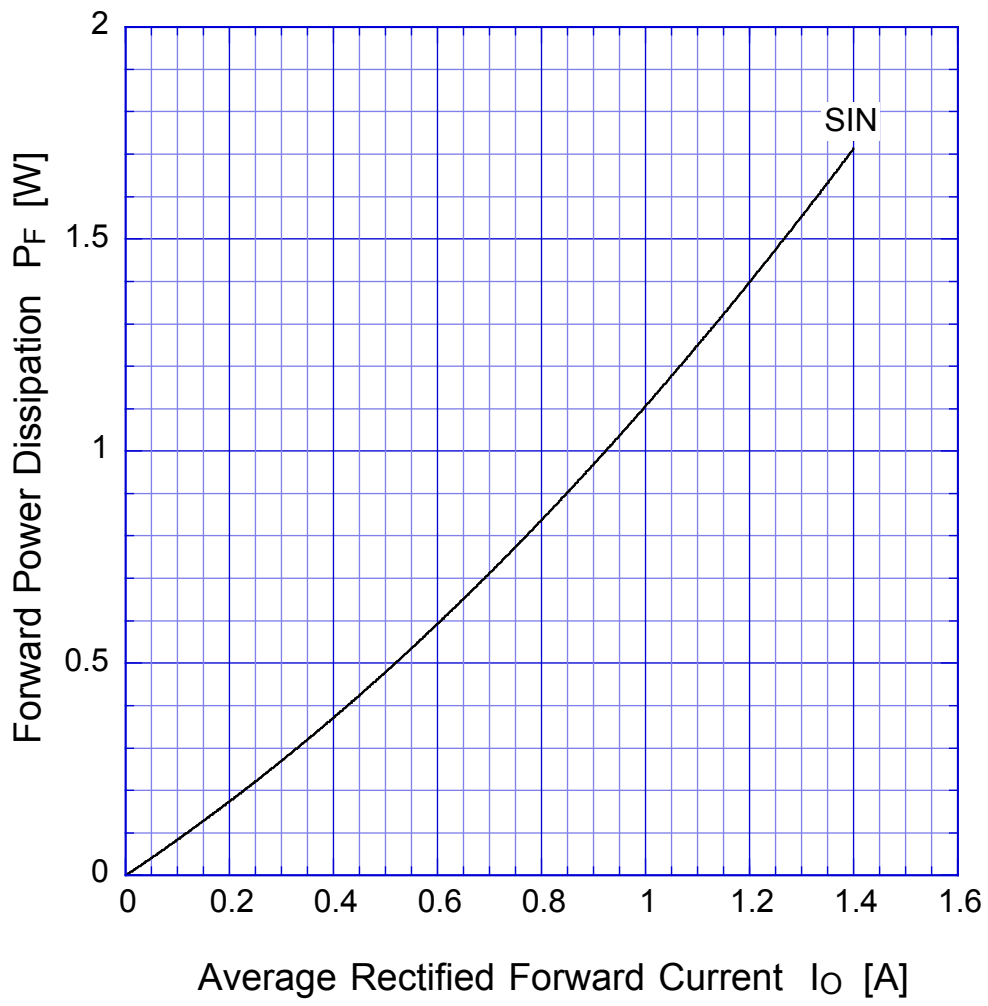
D1Nx

Forward Voltage



D1Nx

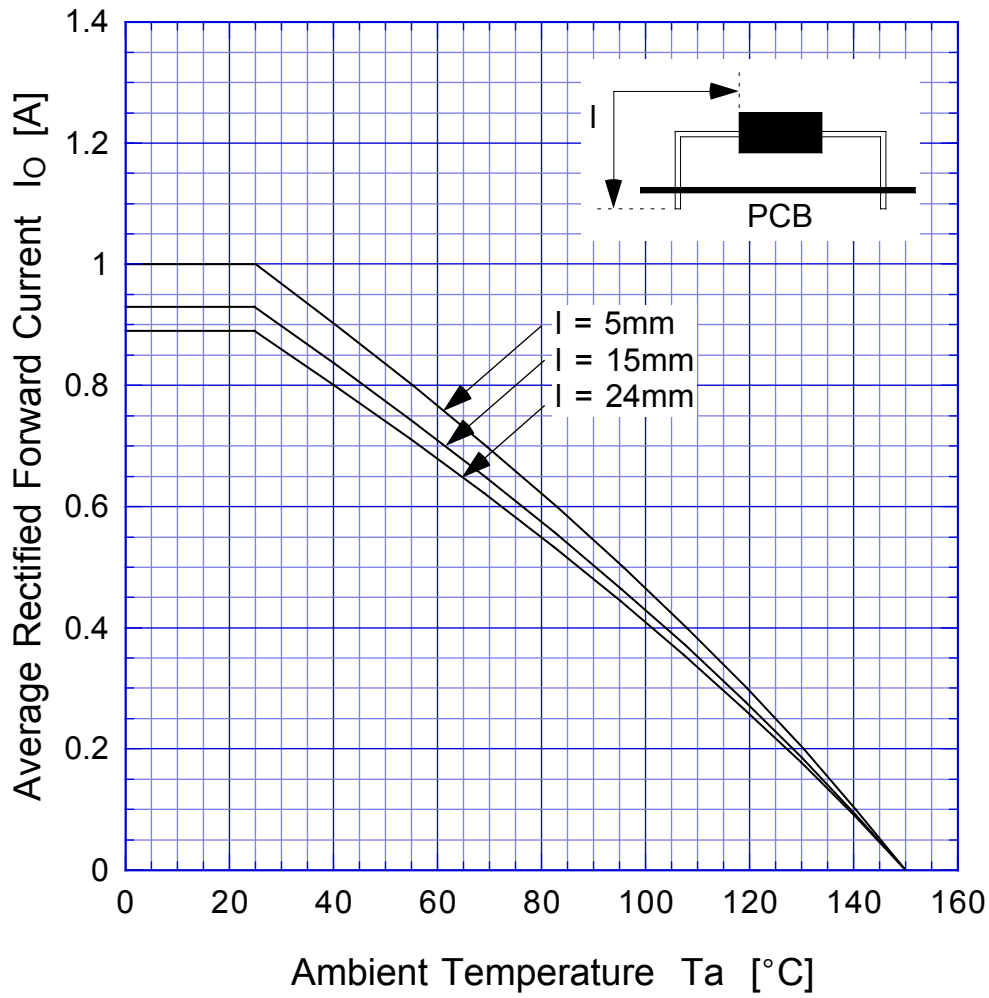
Forward Power Dissipation



$T_j = 150^\circ\text{C}$   
Sine wave

# D1Nx

# Derating Curve



$V_R = V_{RM}$   
Sine wave  
R-load  
Free in air



D1Nx

Peak Surge Forward Capability

