

# SHINDENGEN

## General Purpose Rectifiers

Single

**D1N20**

**200V 1A**

### FEATURES

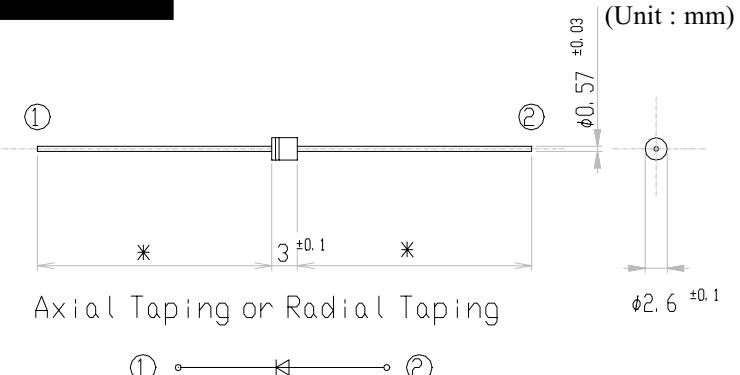
- High voltage
- High reliability with superior moisture resistance
- 5 mm pitch mounting applicable

### APPLICATION

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

### OUTLINE DIMENSIONS

Case : AX057



Axial Taping or Radial Taping

① —————— ②

\*Taping Code No. 4000:20<sup>MIN</sup>

No. 4060:27<sup>MIN</sup>

No. 4070:15<sup>MIN</sup>

### RATINGS

#### ● Absolute Maximum Ratings (If not specified $T_J=25^\circ\text{C}$ )

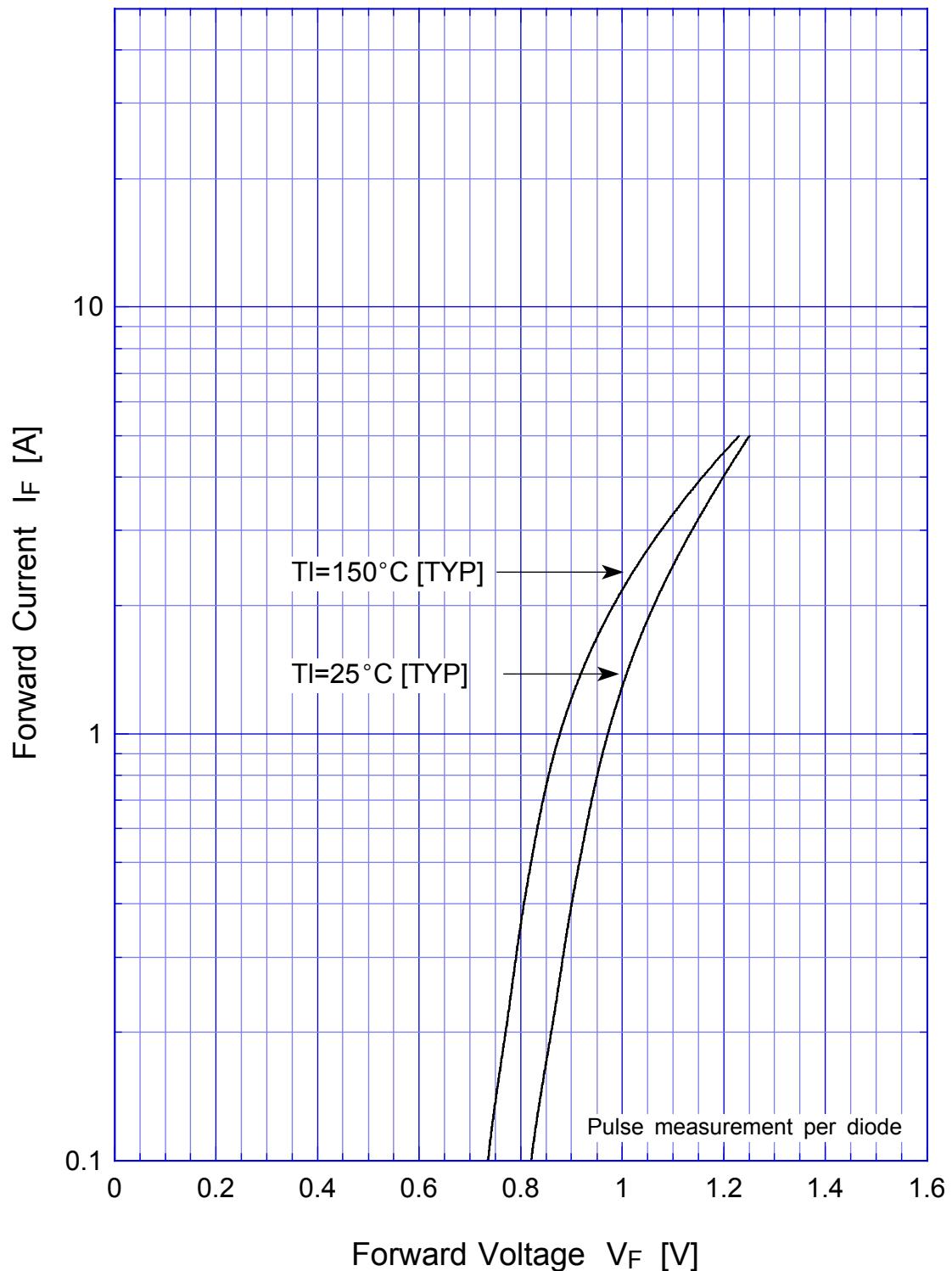
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	$T_{stg}$		-55~150	$^\circ\text{C}$
Operating Junction Temperature	$T_J$		150	$^\circ\text{C}$
Maximum Reverse Voltage	$V_{RM}$		200	V
Average Rectified Forward Current	$I_O$	50Hz sine wave, R-load, On glass-epoxy substrate $T_a=25^\circ\text{C}$	1	A
Peak Surge Forward Current	$I_{FSM}$	50Hz sine wave, Non-repetitive 1cycle peak value, $T_J=25^\circ\text{C}$	30	A
Current Squared Time	$I^2t$	$1\text{ms} \leq t < 10\text{ms}$ $T_J=25^\circ\text{C}$	4.5	$\text{A}^2\text{s}$

#### ● Electrical Characteristics (If not specified $T_J=25^\circ\text{C}$ )

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	$V_F$	$I_F=1\text{A}$ , Pulse measurement	Max.1.05	V
Reverse Current	$I_R$	$V_R=V_{RM}$ , Pulse measurement	Max.10	$\mu\text{A}$
Thermal Resistance	$\theta_{jl}$	junction to lead	Max.10	$^\circ\text{C}/\text{W}$
	$\theta_{ia}$	junction to ambient, On glass-epoxy substrate	Max.113	

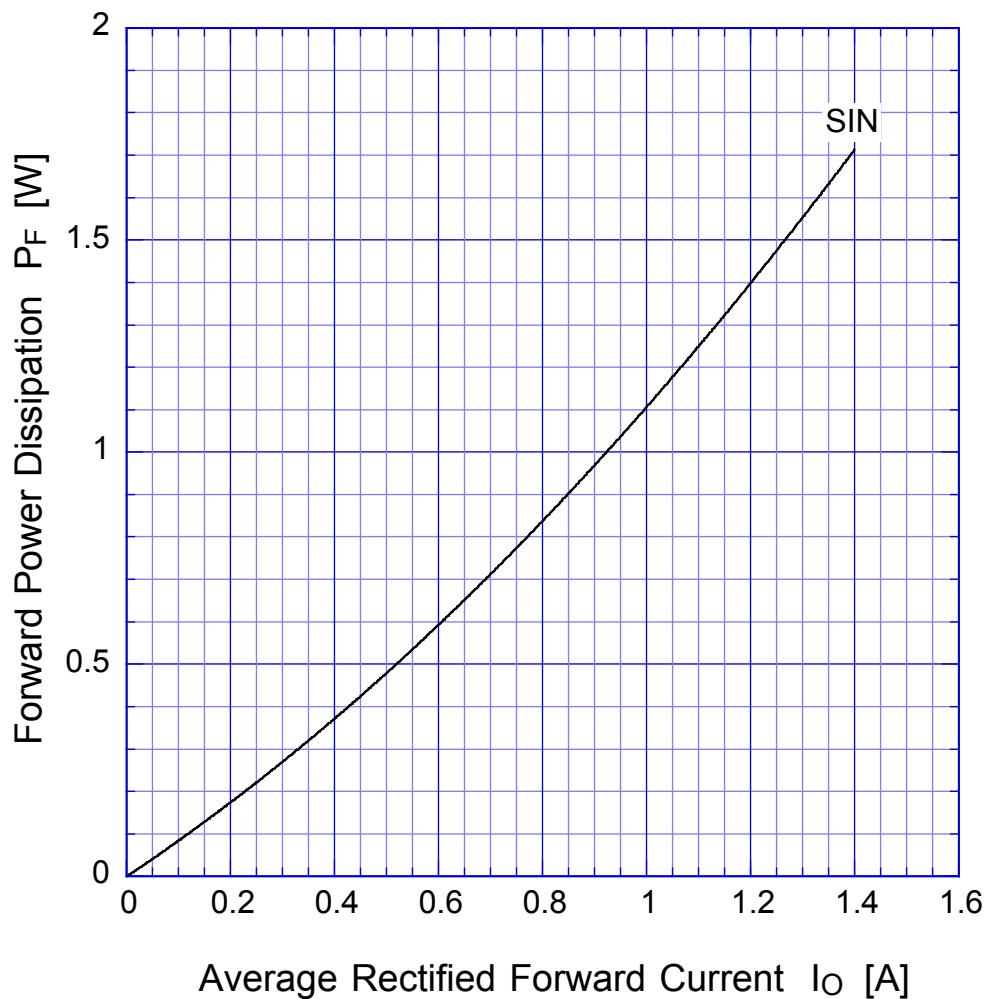
D1Nx

Forward Voltage

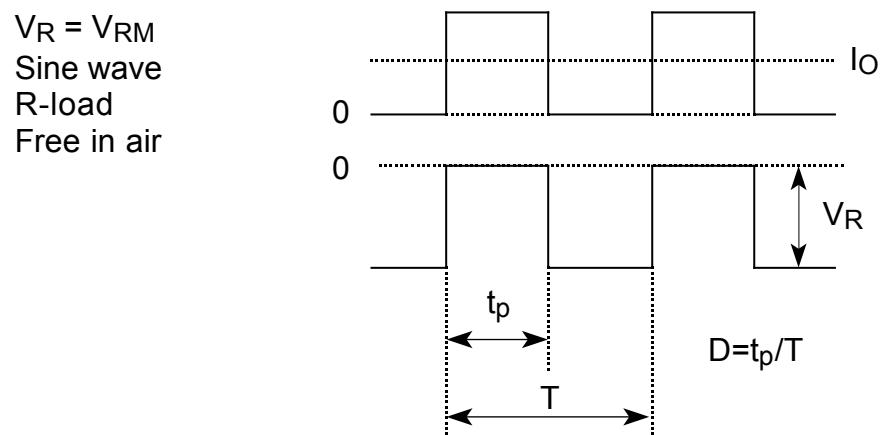
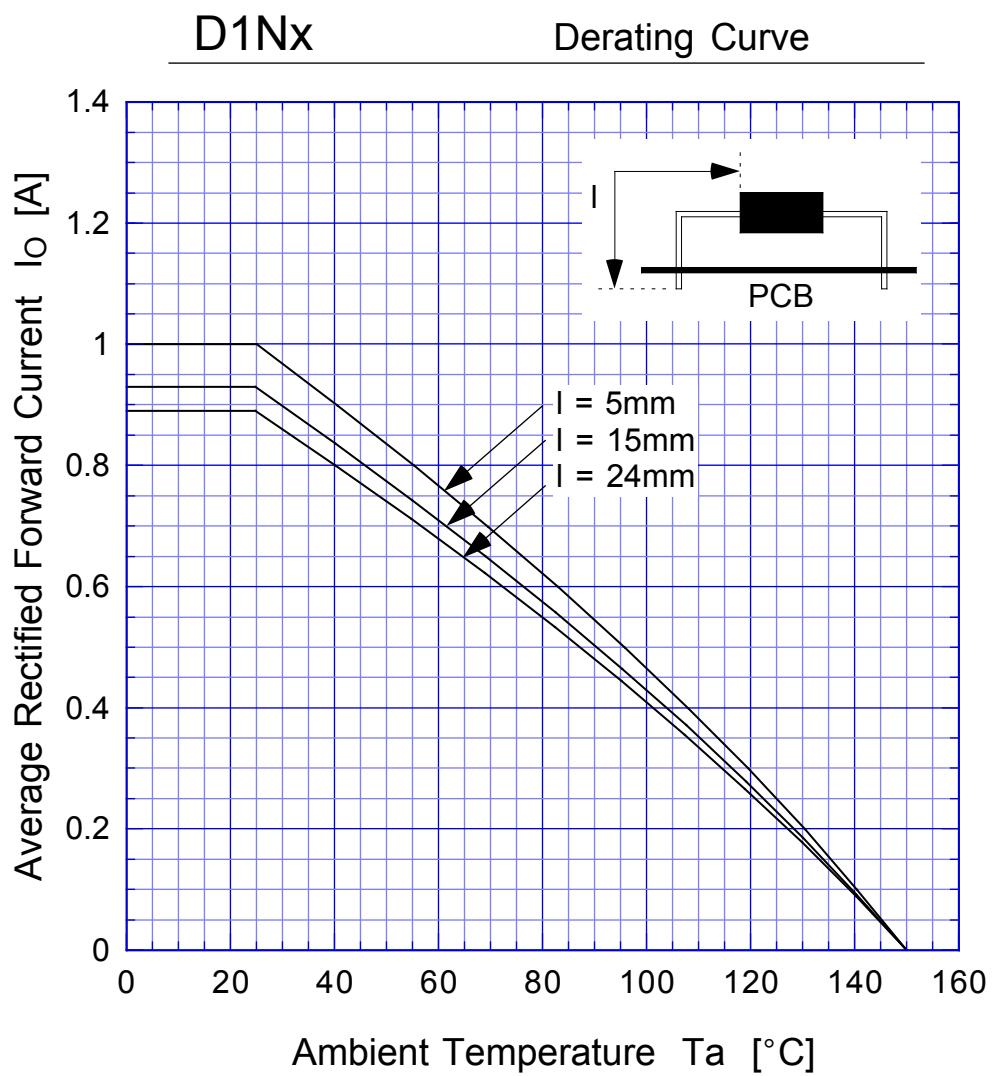


D1Nx

Forward Power Dissipation



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



D1Nx

Peak Surge Forward Capability

