

# SHINDENGEN

## General Purpose Rectifiers

Single

# S3V60

## 600V 3.5A

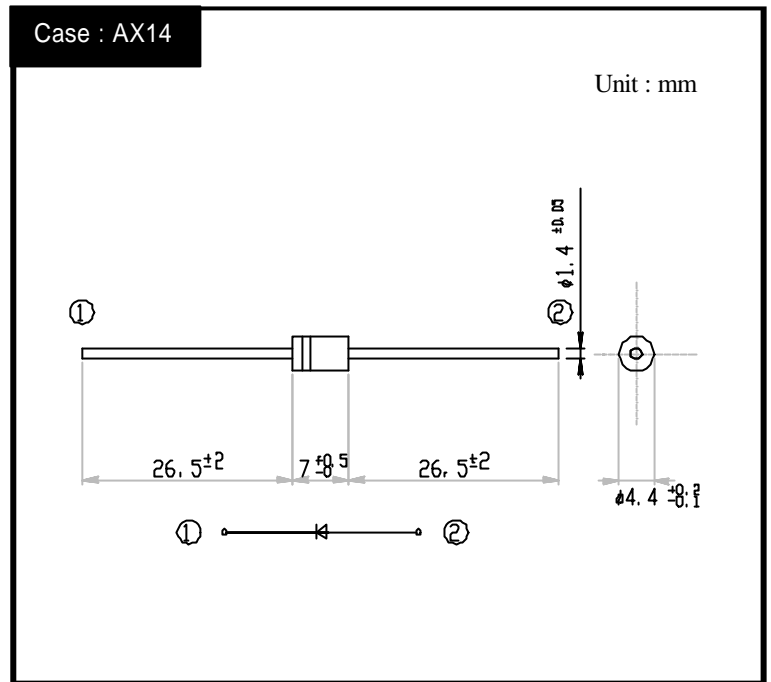
### FEATURES

- High voltage
- High reliability with superior moisture resistance
- Applicable to Automatic Insertion

### 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 )

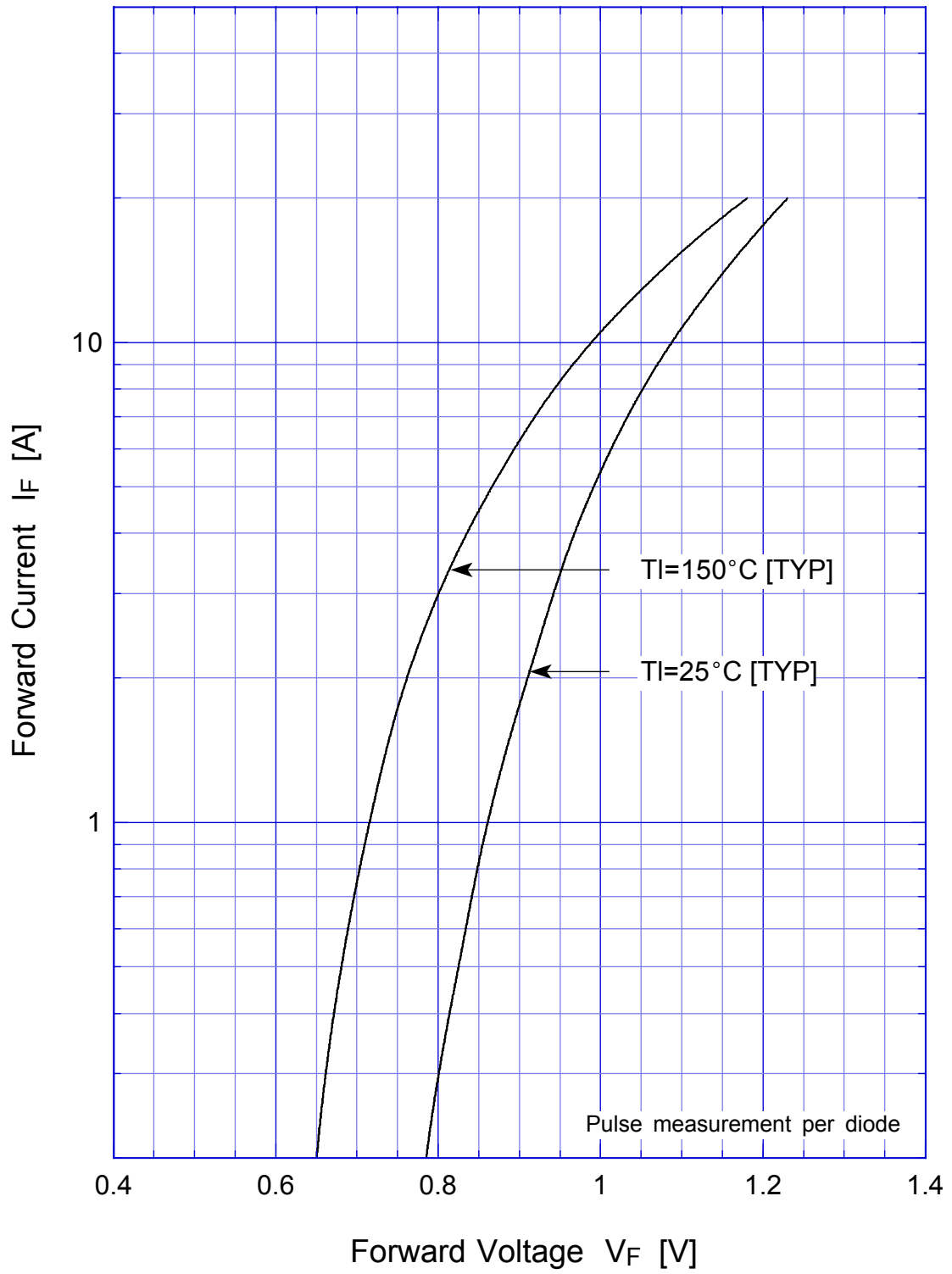
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-55 ~ 150	
Operating Junction Temperature	Tj		150	
Maximum Reverse Voltage	V <sub>RM</sub>		600	V
Average Rectified Forward Current	I <sub>O</sub>	50Hz sine wave, R-load, Ta=40 With 20 × 20 × 1mm copper plate	3.5	A
		50Hz sine wave, R-load, Ta=40 Without heatsink	2.6	
Peak Surge Forward Current	I <sub>FSM</sub>	50Hz sine wave, Non-repetitive 1cycle peak value, Tj=25	120	A
Current Squared Time	I <sup>2</sup> t	1ms t < 10ms Tj=25	60	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> =2.6A 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	jl	junction to lead	Max.6.5	/W

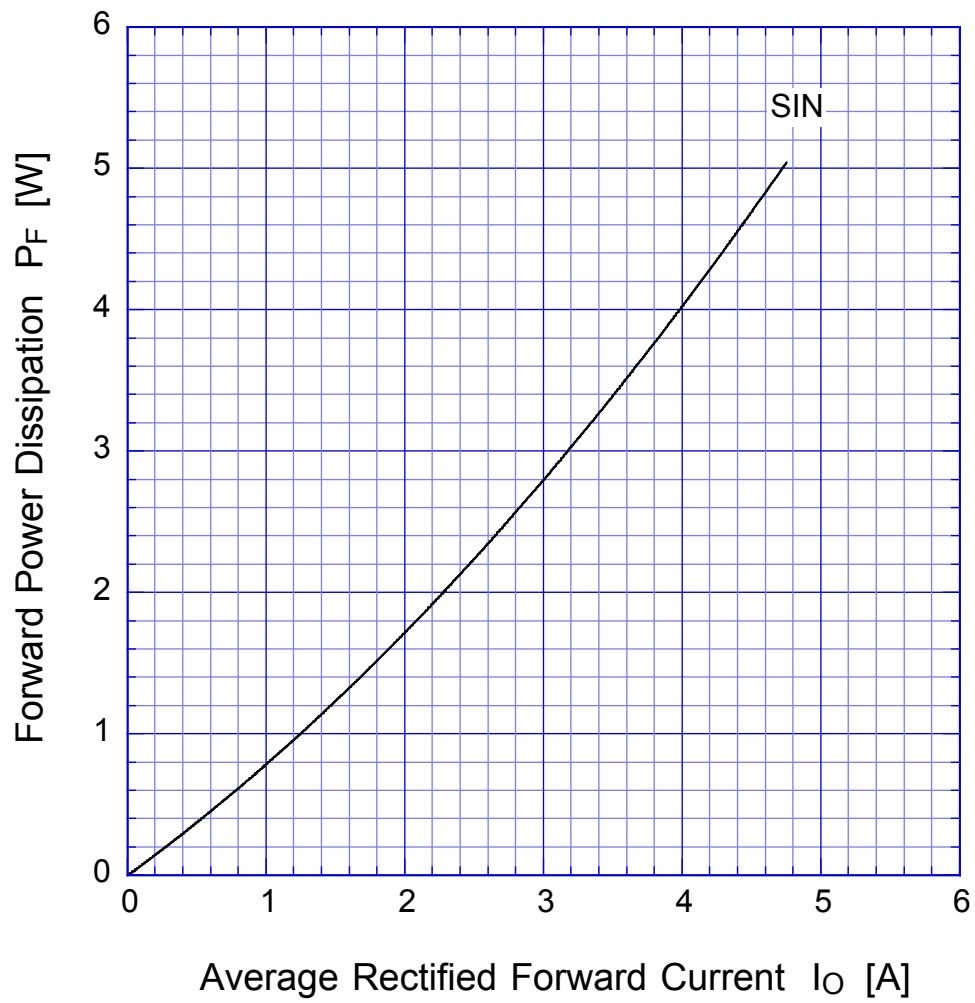
S3Vx

Forward Voltage



S3Vx

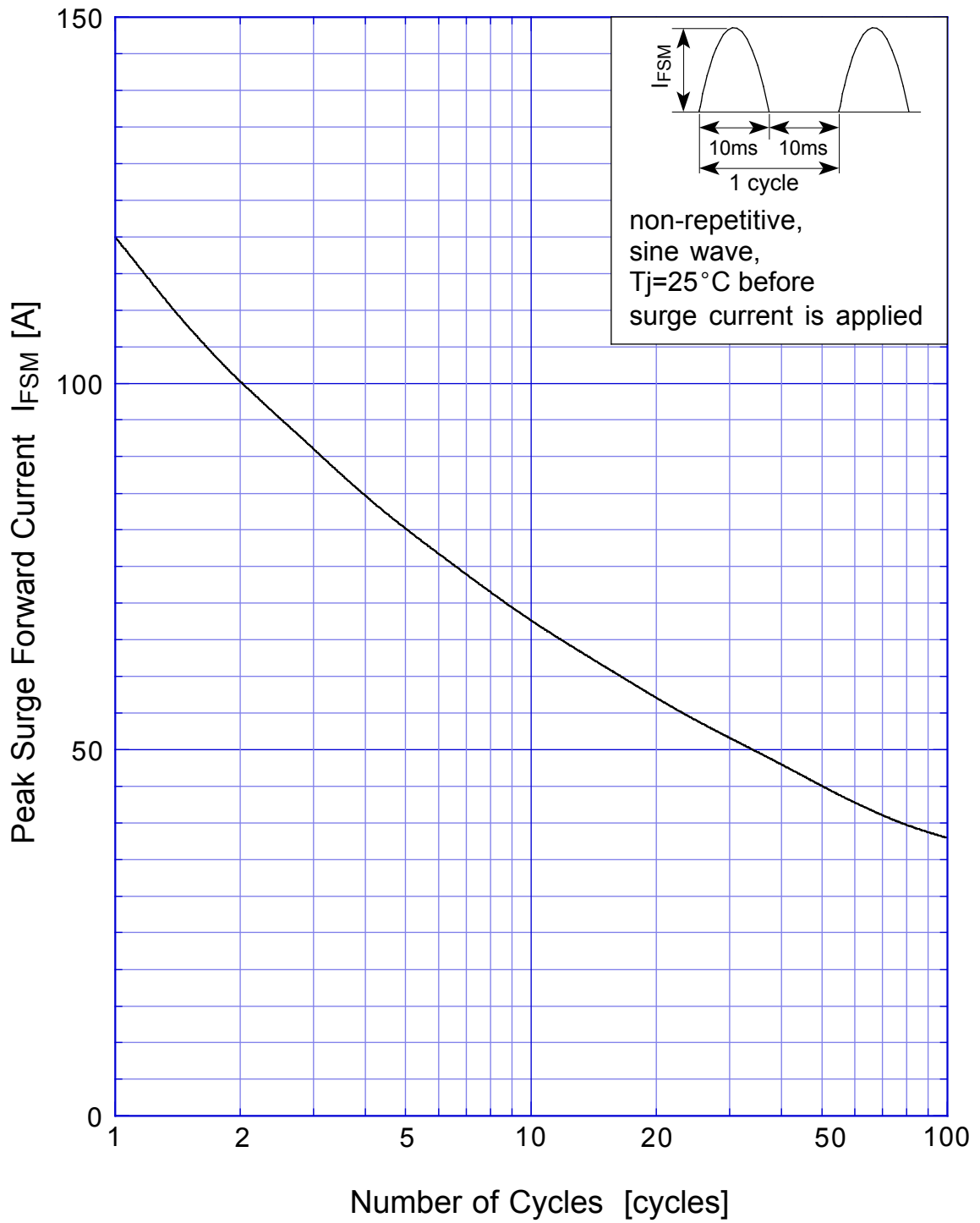
Forward Power Dissipation



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

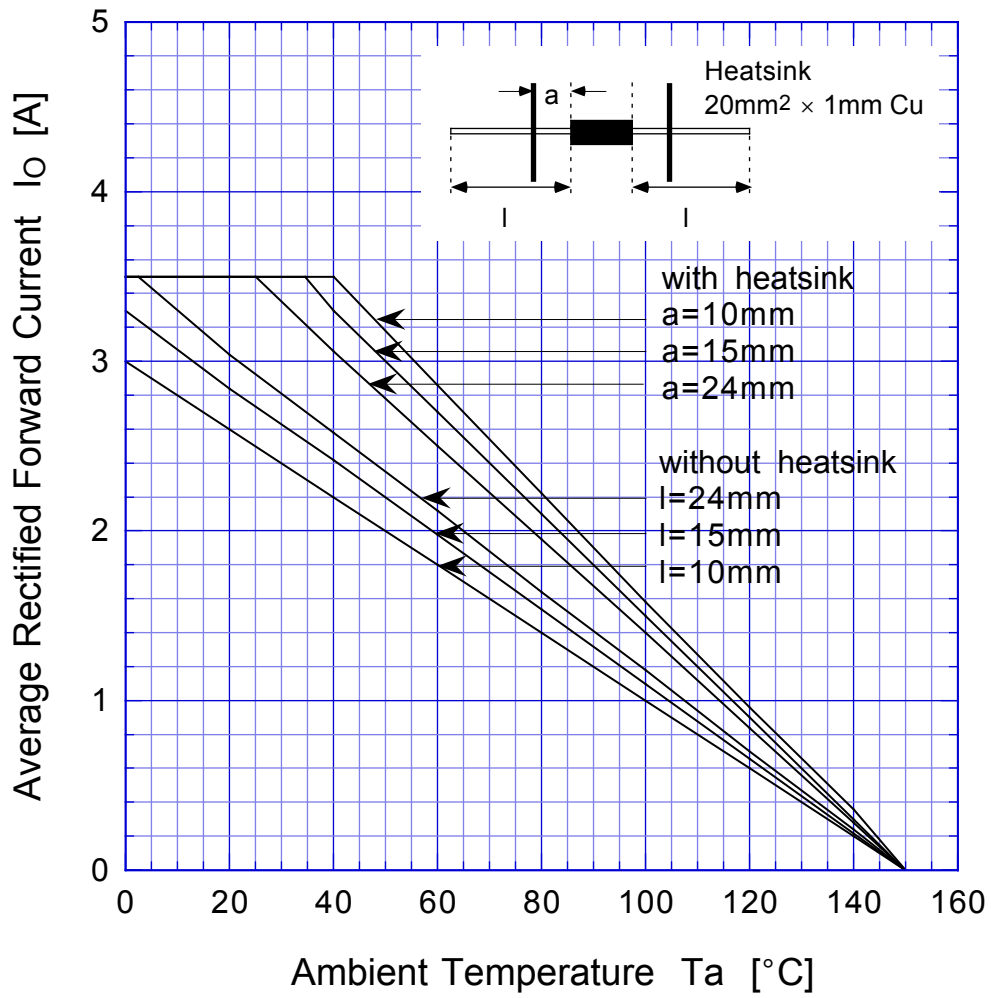
S3Vx

Peak Surge Forward Capability



# S3Vx

# Derating Curve



Sine wave  
R-load  
Free in air