

SHINDENGEN

General Purpose Rectifiers

Single

S3V20

200V 3.5A

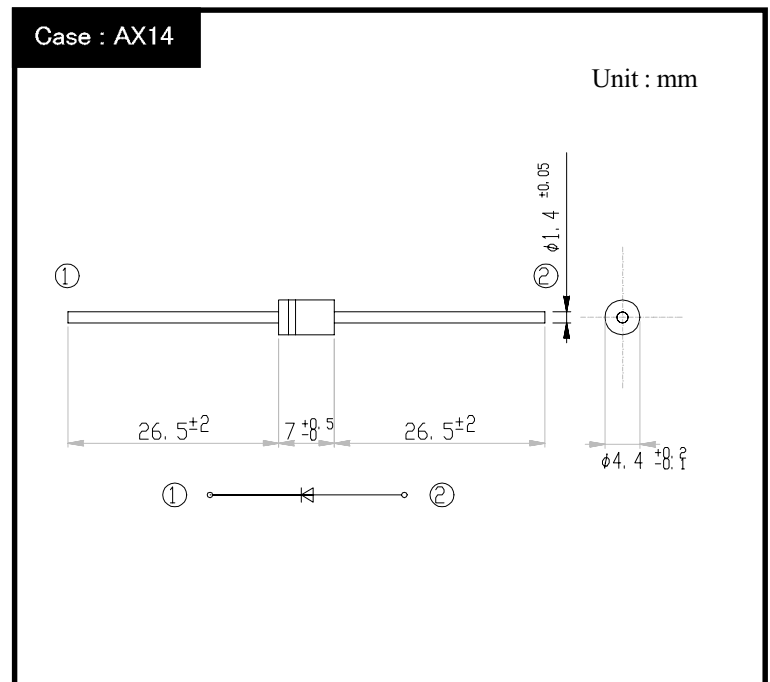
FEATURES

- 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°C)

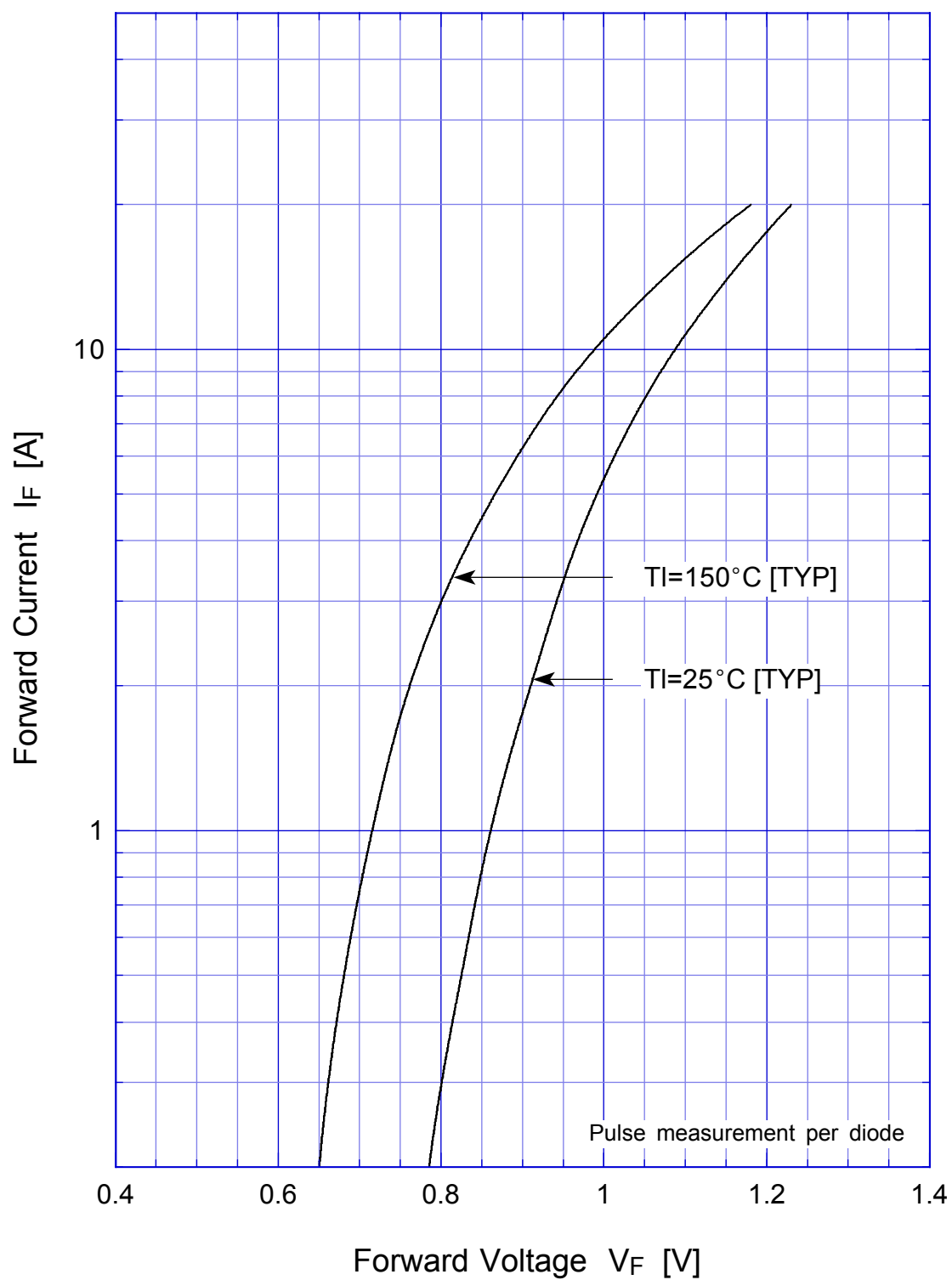
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	T _{stg}		-55~150	°C
Operating Junction Temperature	T _j		150	°C
Maximum Reverse Voltage	V _{RM}		200	V
Average Rectified Forward Current	I _o	50Hz sine wave, R-load, T _c =40°C With 20×20×1mm copper plate	3.5	A
		50Hz sine wave, R-load, T _a =40°C Without heatsink	2.6	
Peak Surge Forward Current	I _{FSM}	50Hz sine wave, Non-repetitive 1cycle peak value, T _j =25°C	120	A
Current Squared Time	I ² t	1ms ≤ t < 10ms T _j =25°C	60	A ² s

● Electrical Characteristics (If not specified Tl=25°C)

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V _F	I _F =2.6A, Pulse measurement	Max. 1.05	V
Reverse Current	I _R	V _R =V _{RM} , Pulse measurement	Max. 10	μA
Thermal Resistance	θ _{jl}	junction to lead	Max 6.5	°C/W

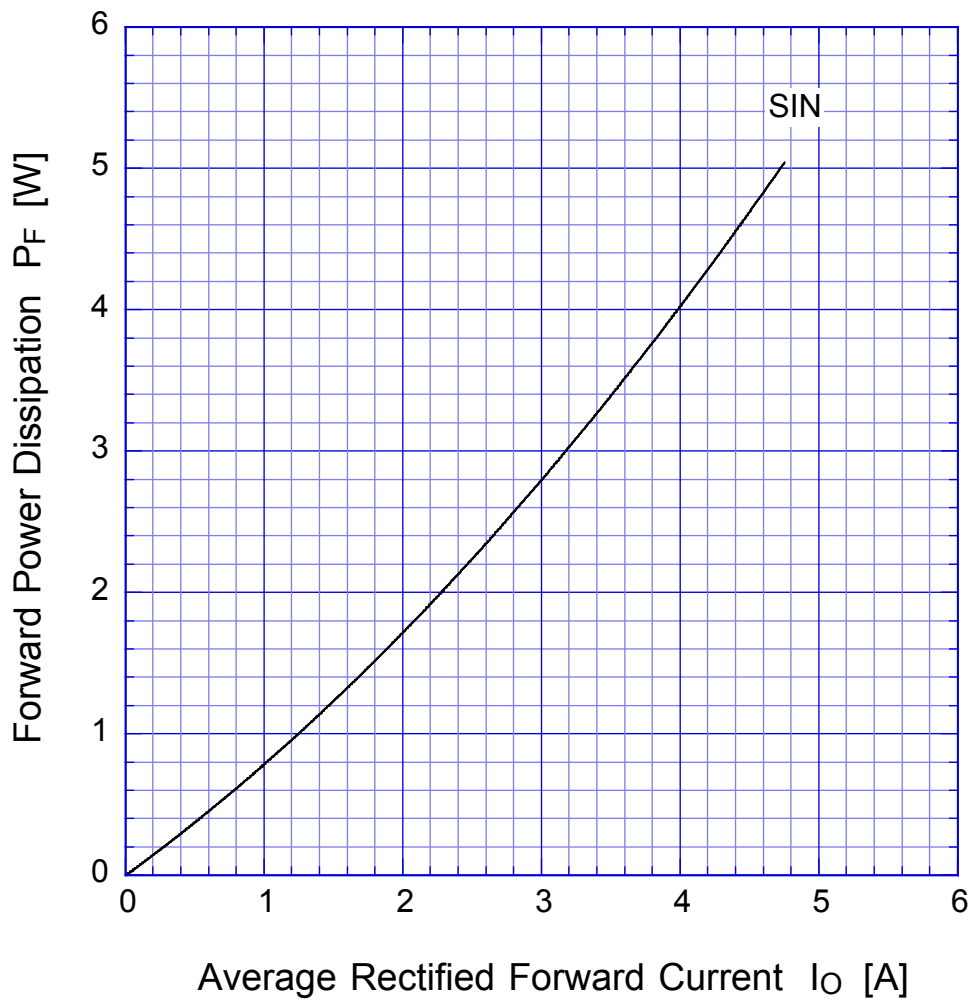
S3Vx

Forward Voltage



S3Vx

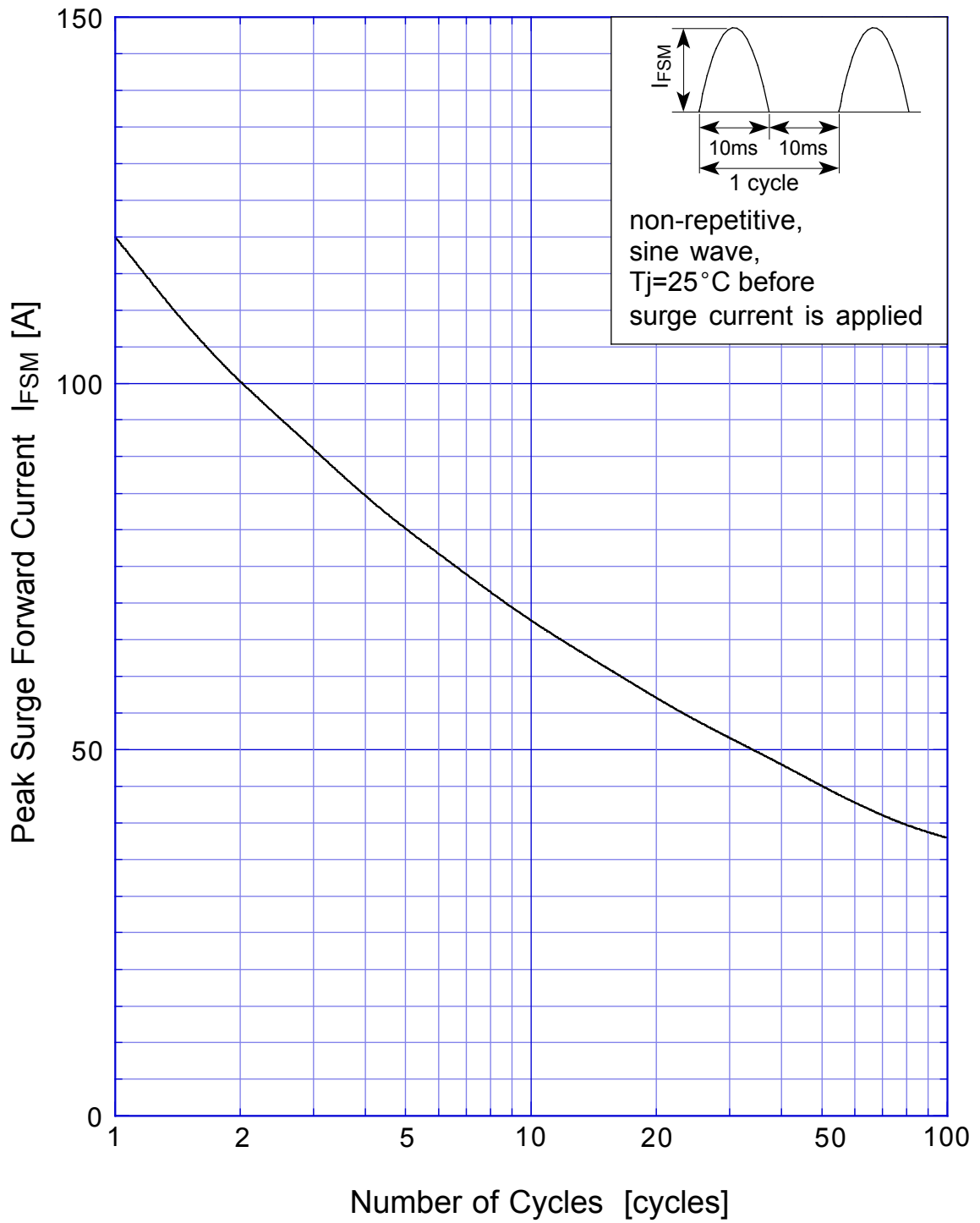
Forward Power Dissipation



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

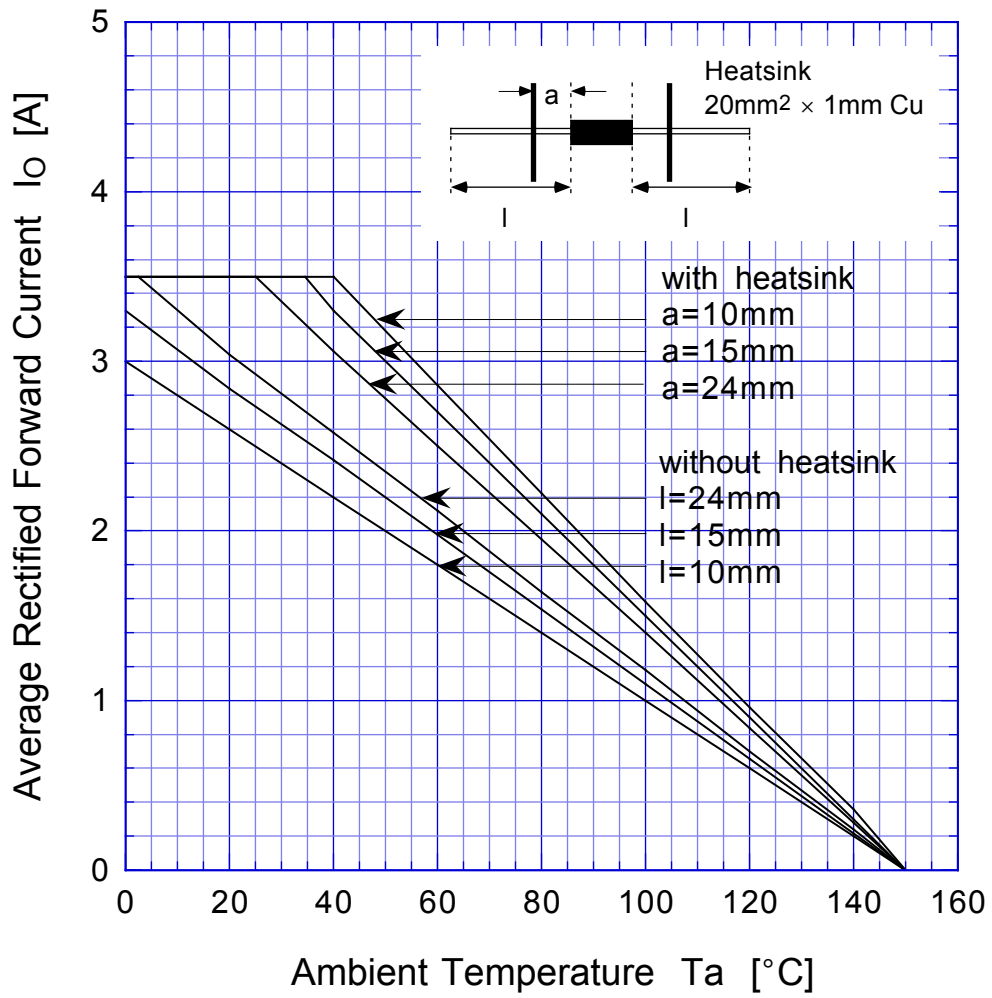
S3Vx

Peak Surge Forward Capability



S3Vx

Derating Curve



Sine wave
R-load
Free in air