

SHINDENGEN

General Purpose Rectifiers

Single

S3V20

200V 3.5A

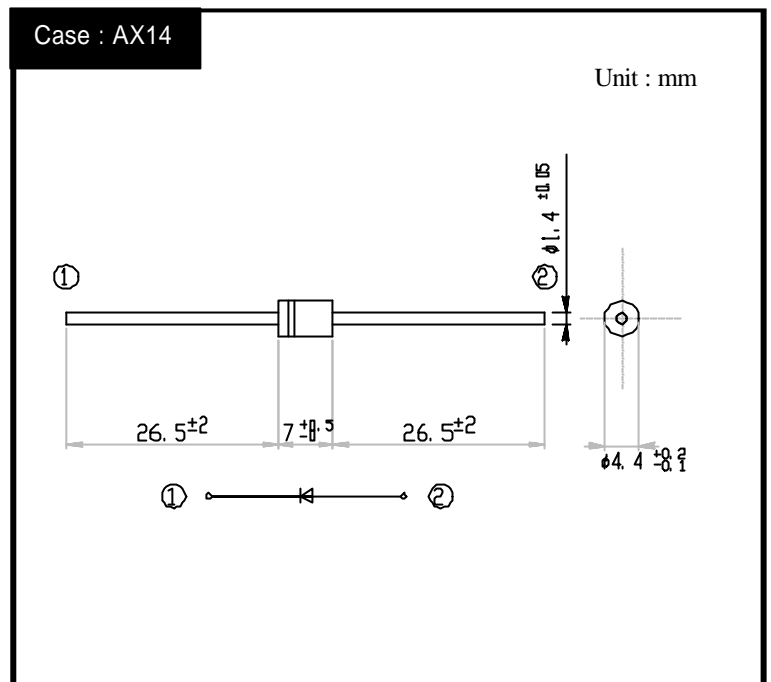
FEATURES

- 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 $T_I=25$)

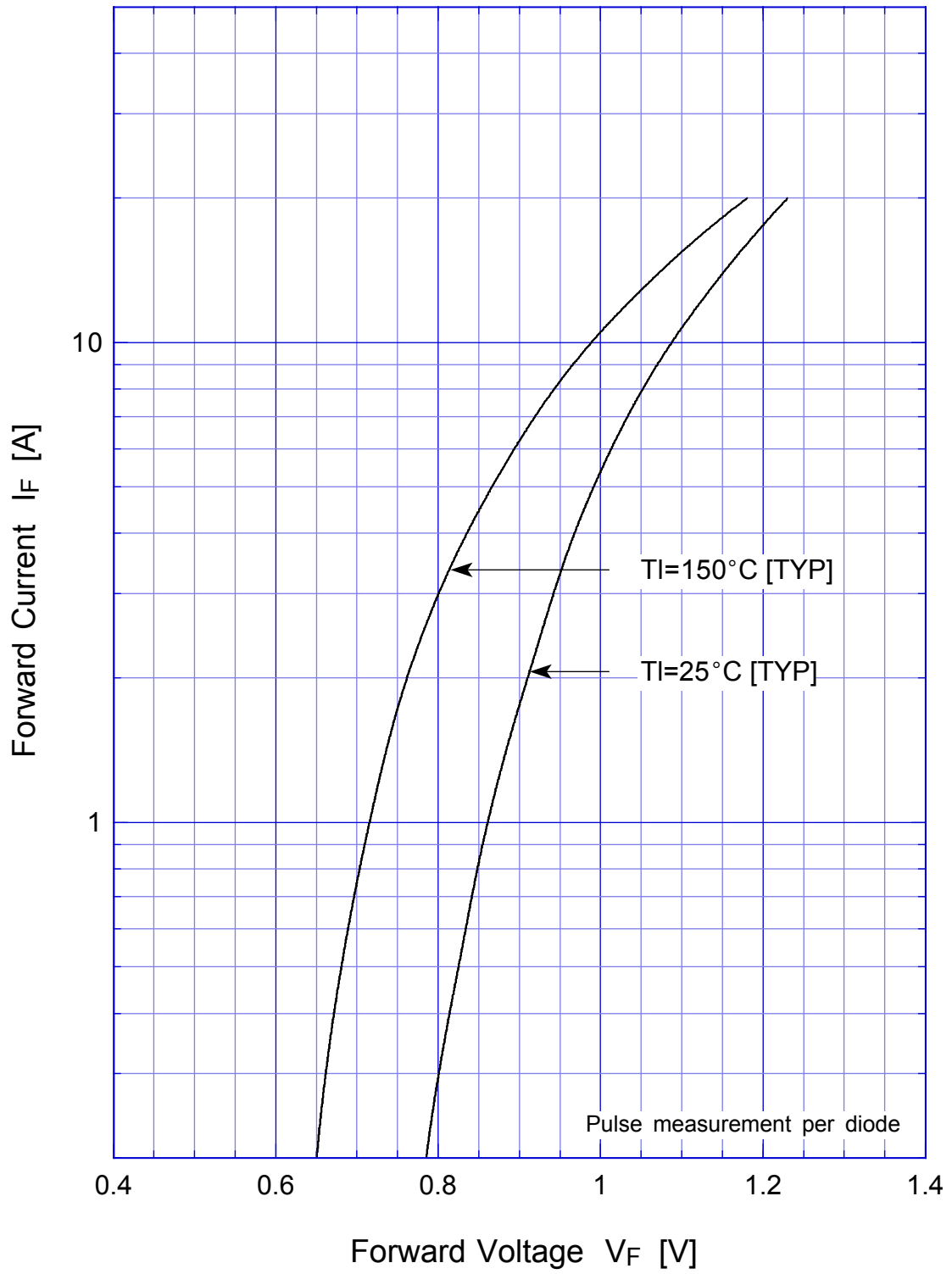
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	T_{stg}		-55 ~ 150	
Operating Junction Temperature	T_j		150	
Maximum Reverse Voltage	V_{RM}		200	V
Average Rectified Forward Current	I_o	50Hz sine wave, R-load, $T_c=40$ With $20 \times 20 \times 1$ mm copper plate	3.5	A
		50Hz sine wave, R-load, $T_a=40$ Without heatsink	2.6	
Peak Surge Forward Current	I_{FSM}	50Hz sine wave, Non-repetitive 1cycle peak value, $T_j=25$	120	A
Current Squared Time	I^2t	1ms $t < 10$ ms $T_i=25$	60	A^2s

Electrical Characteristics (If not specified $T_I=25$)

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_l	junction to lead	Max 6.5	/W

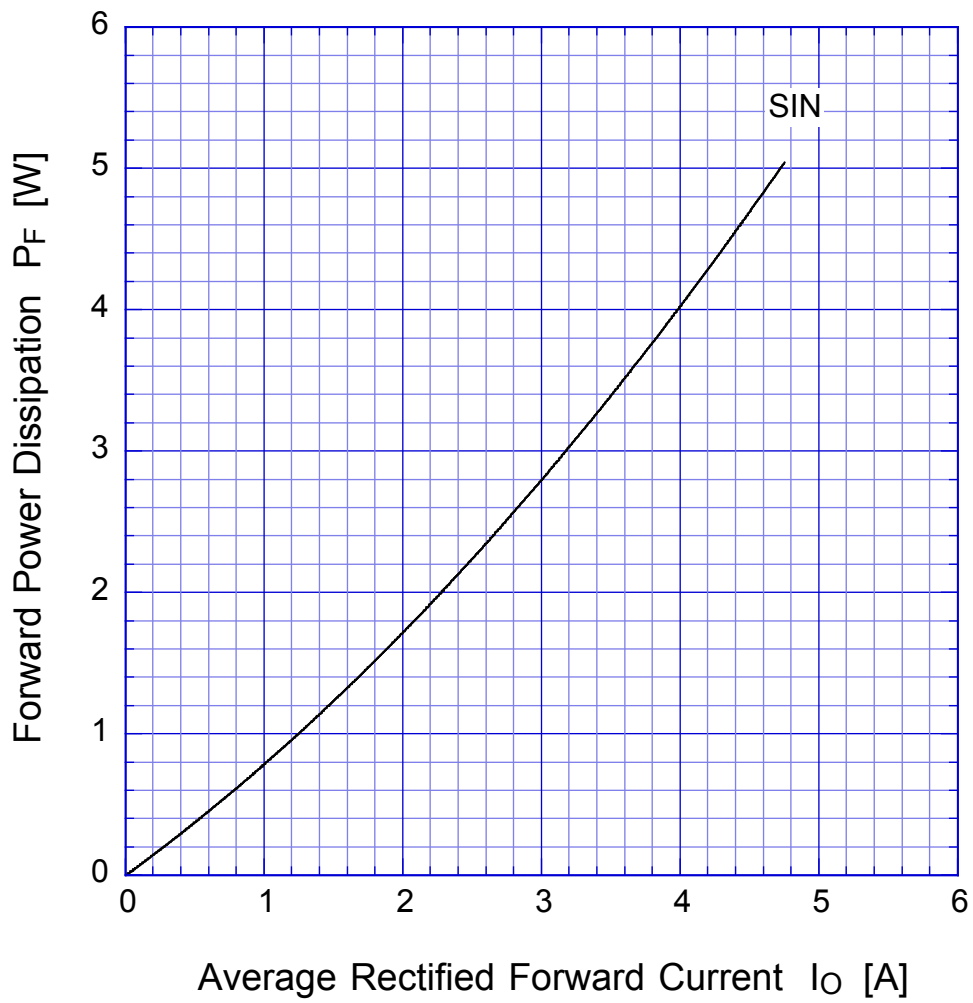
S3Vx

Forward Voltage



S3Vx

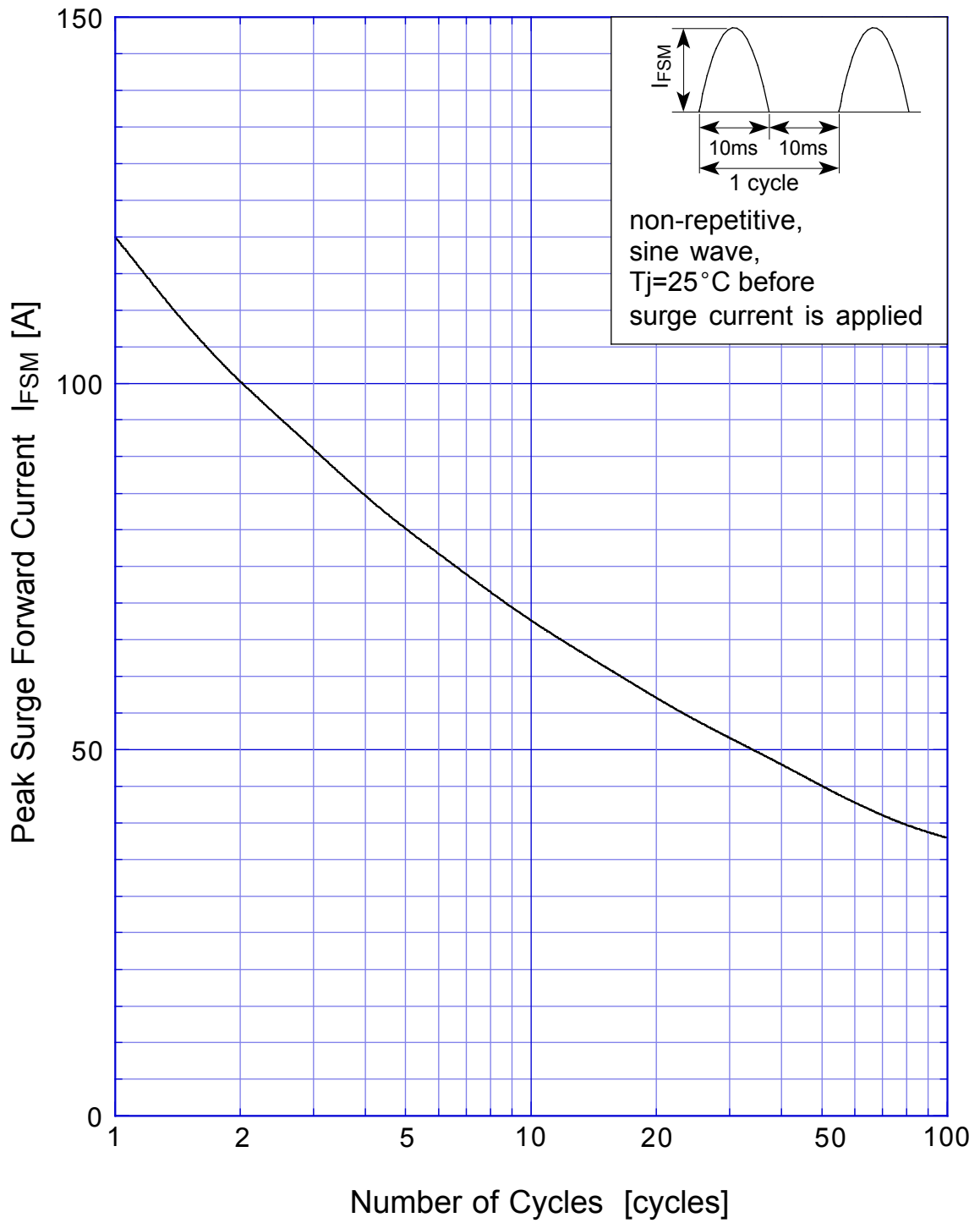
Forward Power Dissipation



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

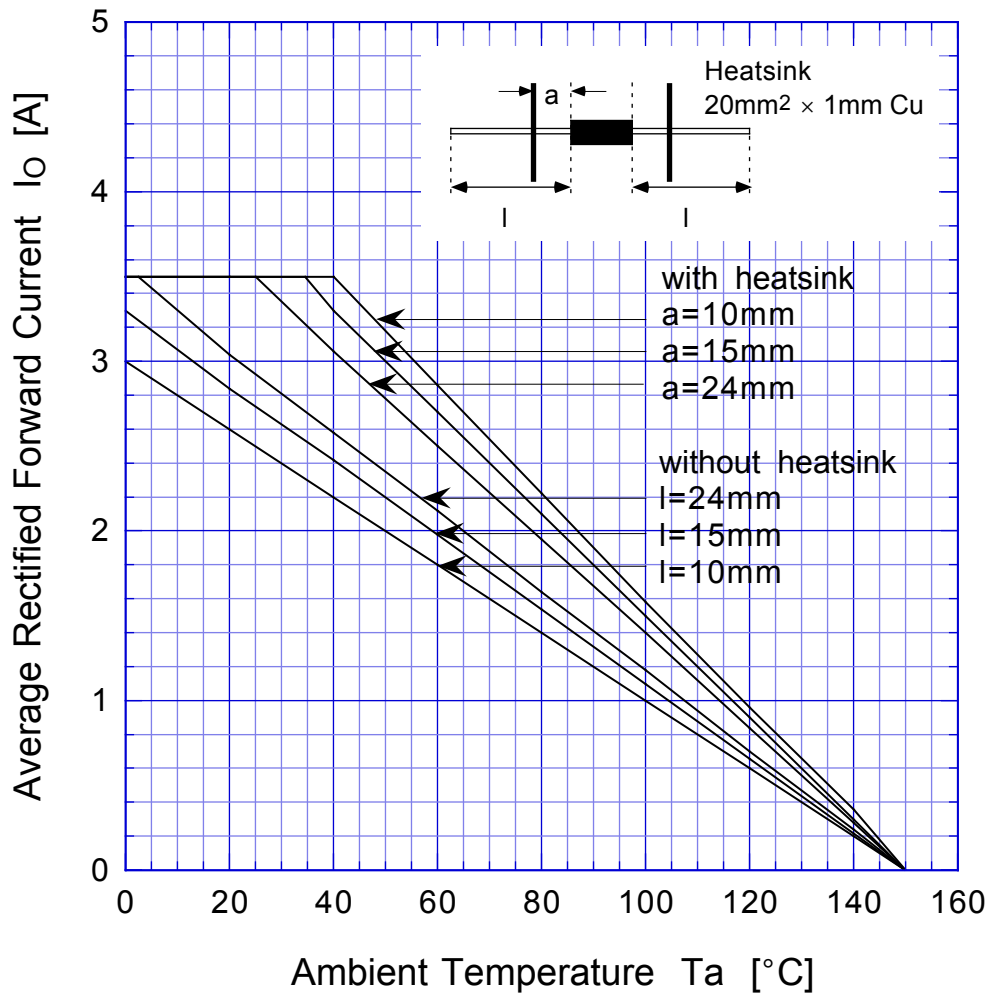
S3Vx

Peak Surge Forward Capability



S3Vx

Derating Curve



Sine wave
R-load
Free in air