

SHINDENGEN

General Purpose Rectifiers

Single

S3V20

200V 3.5A

FEATURES

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

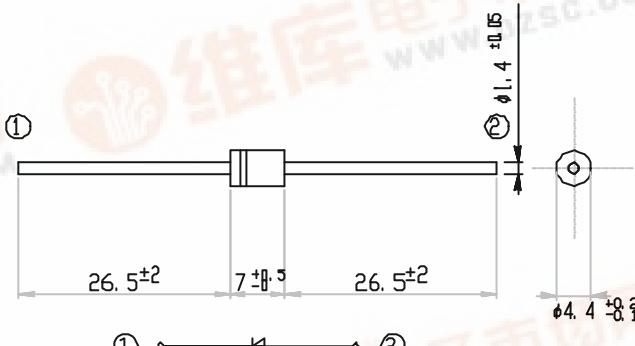
APPLICATION

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

OUTLINE DIMENSIONS

Case : AX14

Unit : mm



RATINGS

Absolute Maximum Ratings (If not specified $T_J=25^\circ C$)

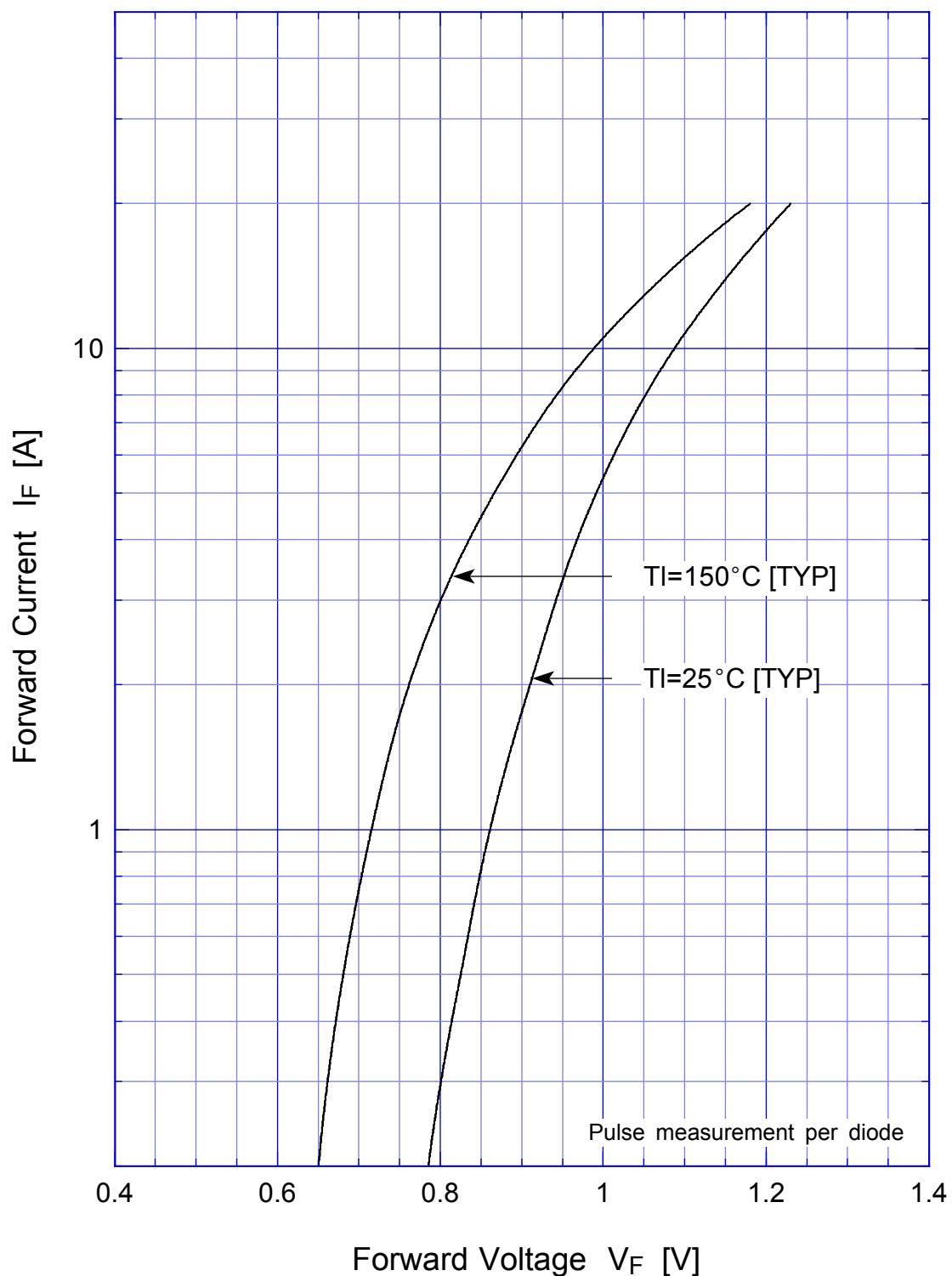
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	T_{STG}		-55 ~ 150	
Operating Junction Temperature	T_J		150	
Maximum Reverse Voltage	V_{RM}		200	V
Average Rectified Forward Current	I_O	50Hz sine wave, R-load, $T_c=40^\circ C$ With 20 × 20 × 1mm copper plate	3.5	A
		50Hz sine wave, R-load, $T_a=40^\circ C$ Without heatsink	2.6	
Peak Surge Forward Current	I_{FSM}	50Hz sine wave, Non-repetitive 1cycle peak value, $T_J=25^\circ C$	120	A
Current Squared Time	I^2t	1ms $t < 10ms$ $T_J=25^\circ C$	60	A's

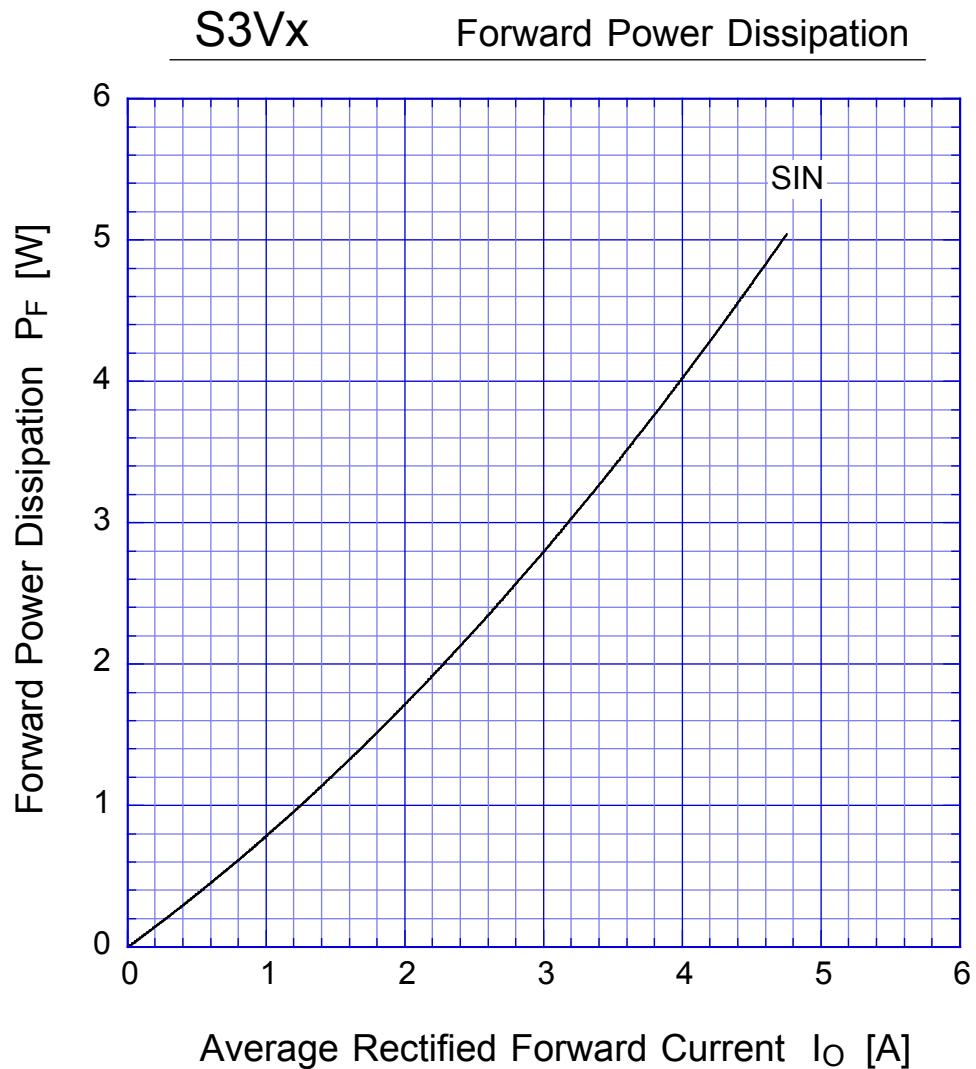
Electrical Characteristics (If not specified $T_J=25^\circ C$)

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	j_L	Junction to lead	Max 6.5	/W

S3Vx

Forward Voltage

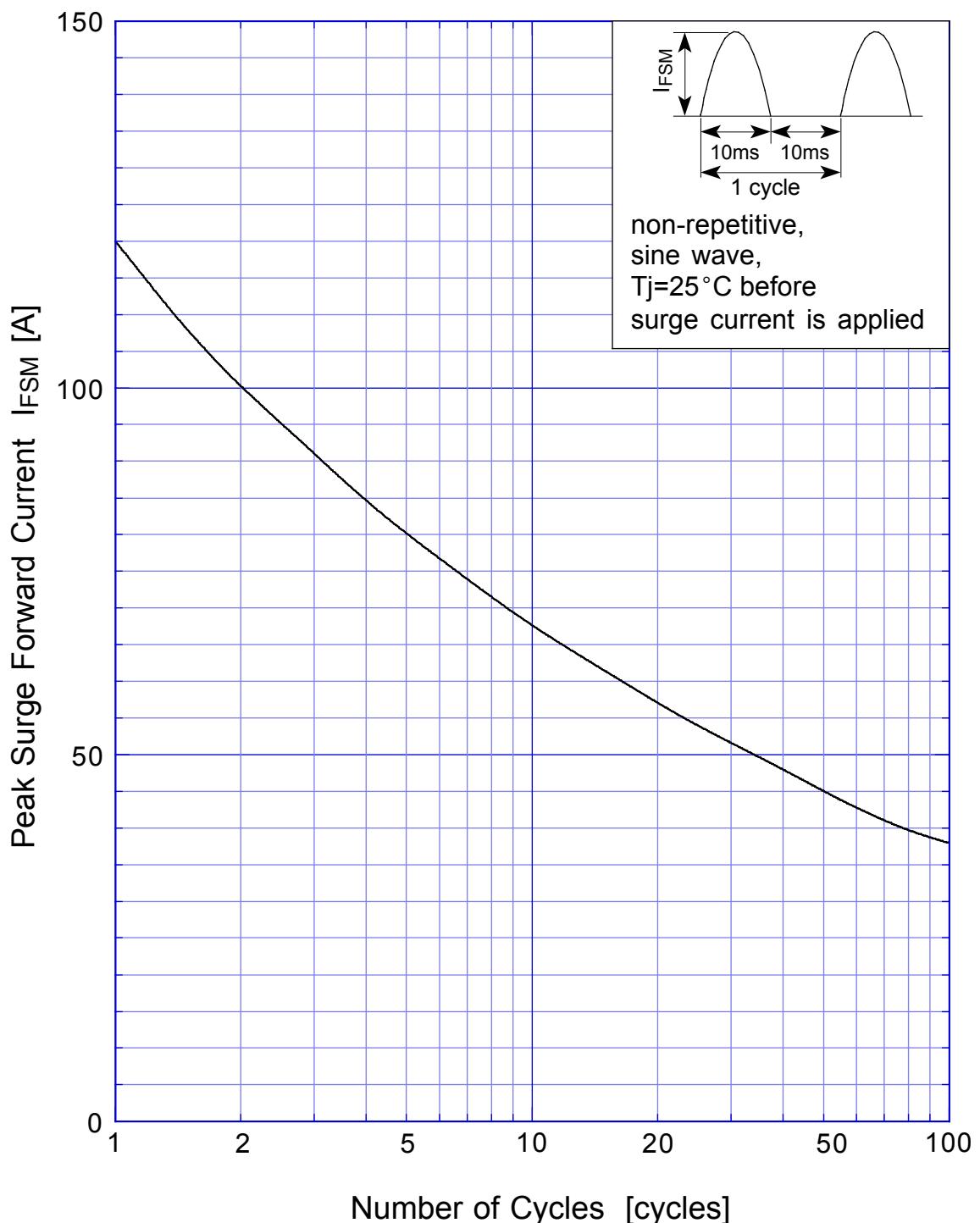


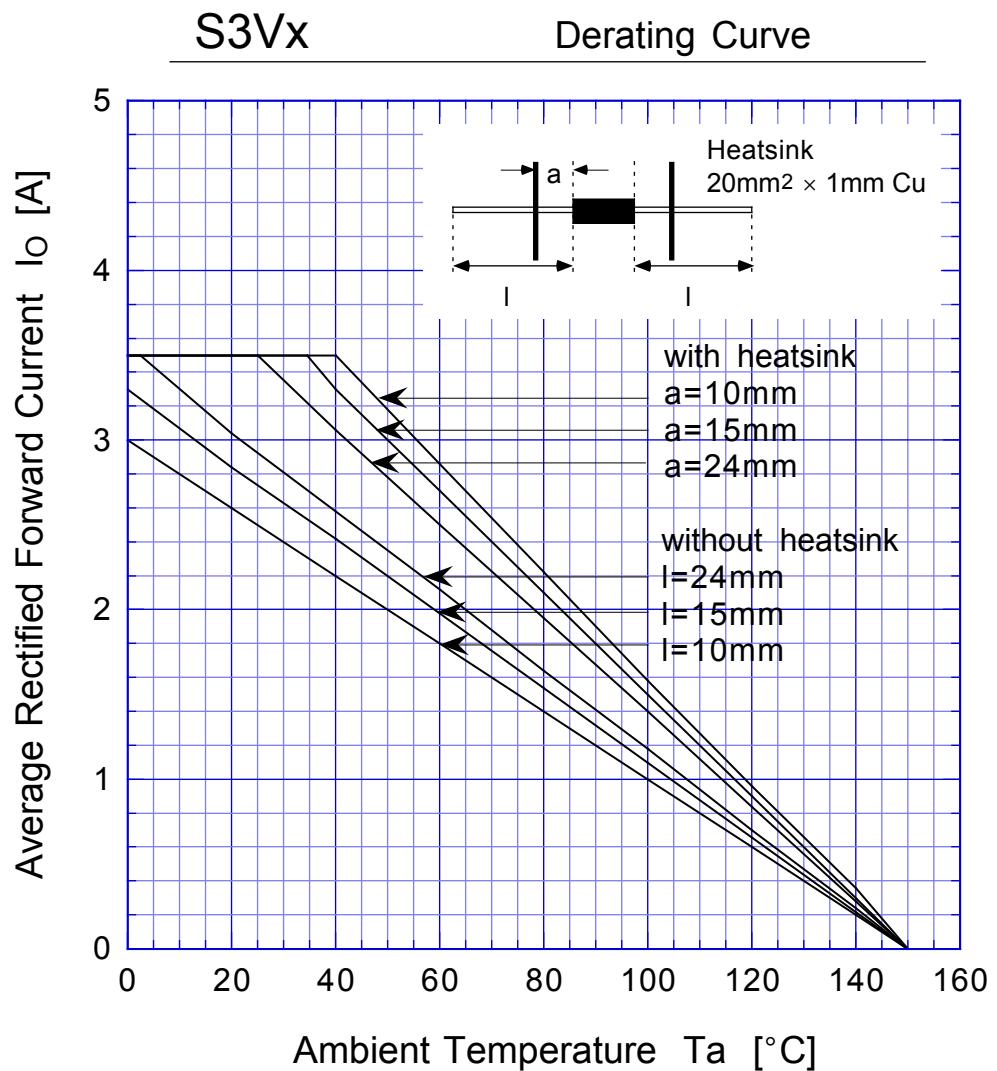


$T_j = 150^\circ\text{C}$
Sine wave

S3Vx

Peak Surge Forward Capability





Sine wave
R-load
Free in air