SHINDENGEN

General Purpose Rectifiers

Single

S3V20

200V 3.5A

FEATURES

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

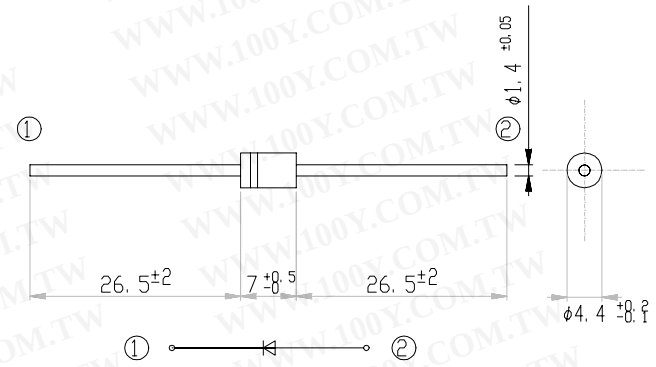
APPLICATION

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

OUTLINE DIMENSIONS

Case : AX14

Unit : mm



RATINGS

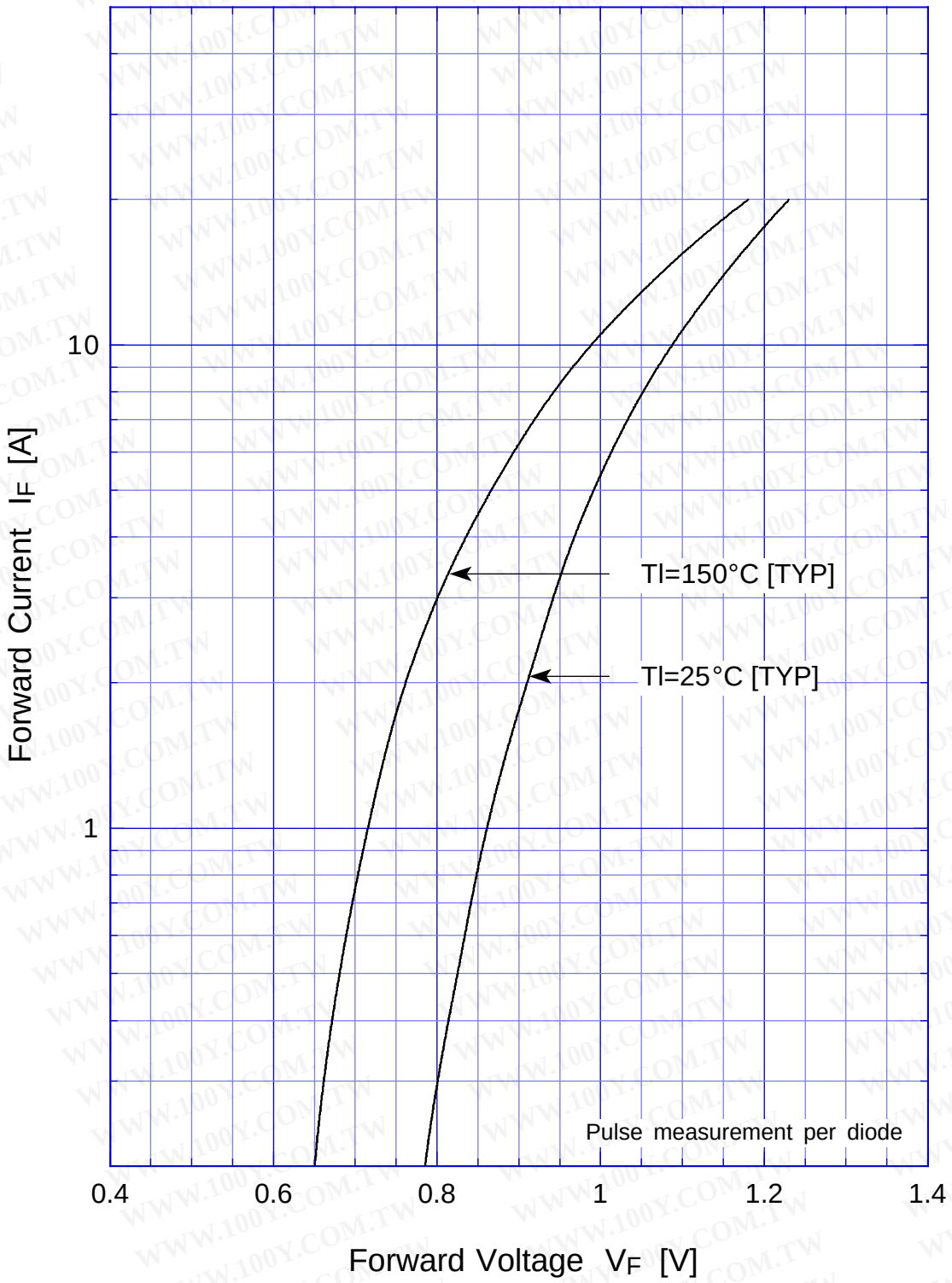
●Absolute Maximum Ratings (If not specified Tl=25℃)

Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		−55～150	℃
Operating Junction Temperature	Tj		150	℃
Maximum Reverse Voltage	V_{RM}		200	V
Average Rectified Forward Current	Io	50Hz sine wave, R-load, Tc=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_{FSM}	50Hz sine wave, Non-repetitive 1cycle peak value, Tj=25℃	120	A
Current Squared Time	I^2t	1ms≦t＜10ms Tj=25℃	60	A^2s

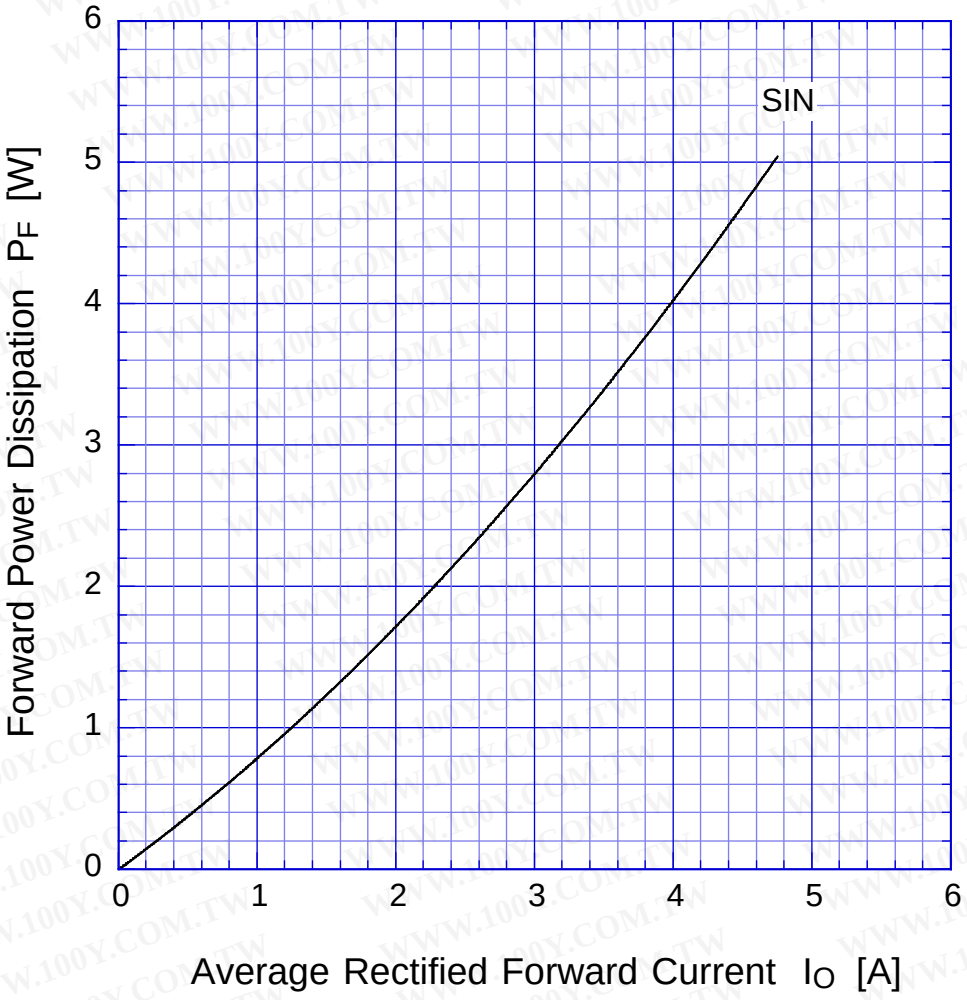
●Electrical Characteristics (If not specified Tl=25℃)

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 jl	junction to lead	Max 6.5	℃/W

S3Vx Forward Voltage



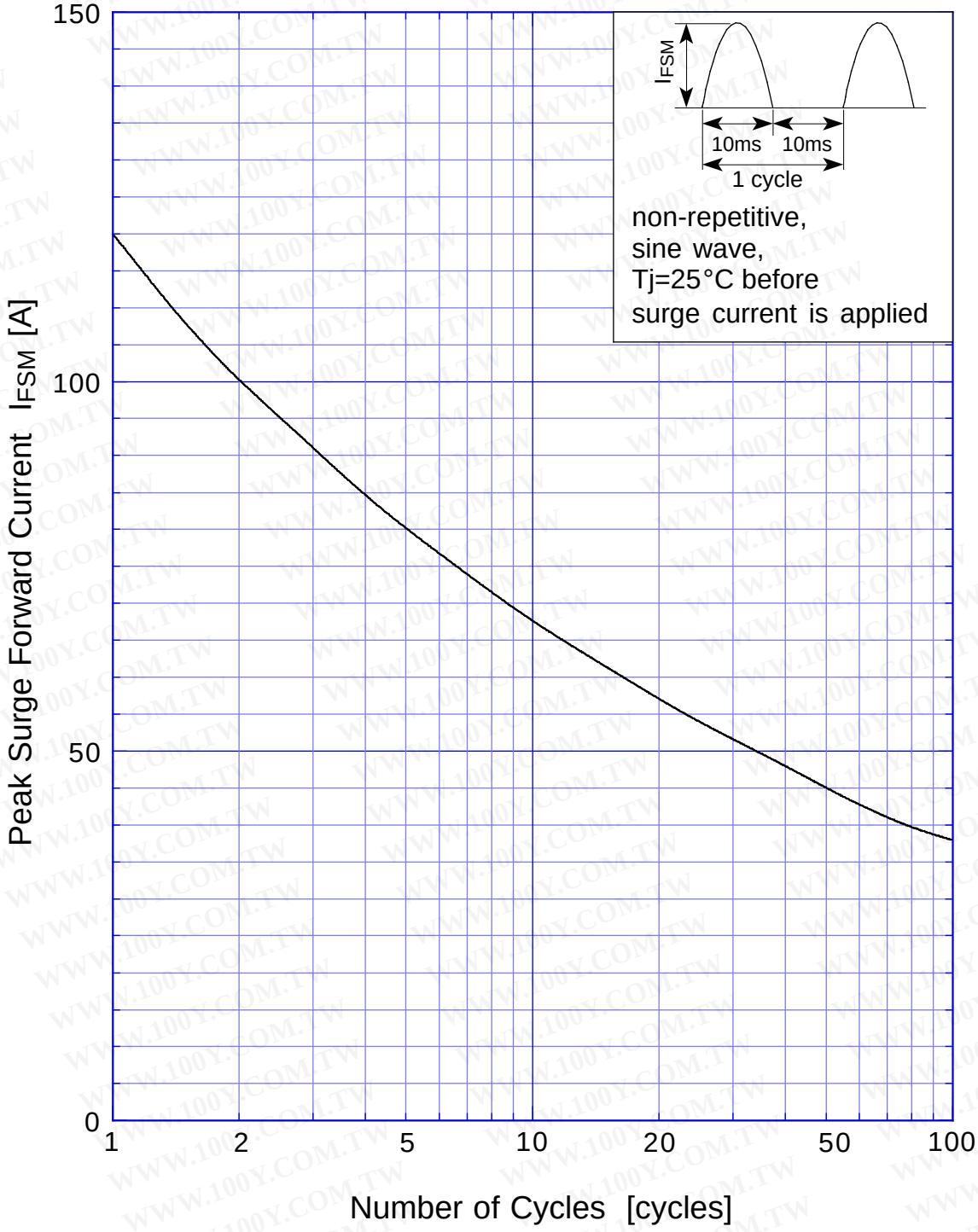
S3Vx Forward Power Dissipation



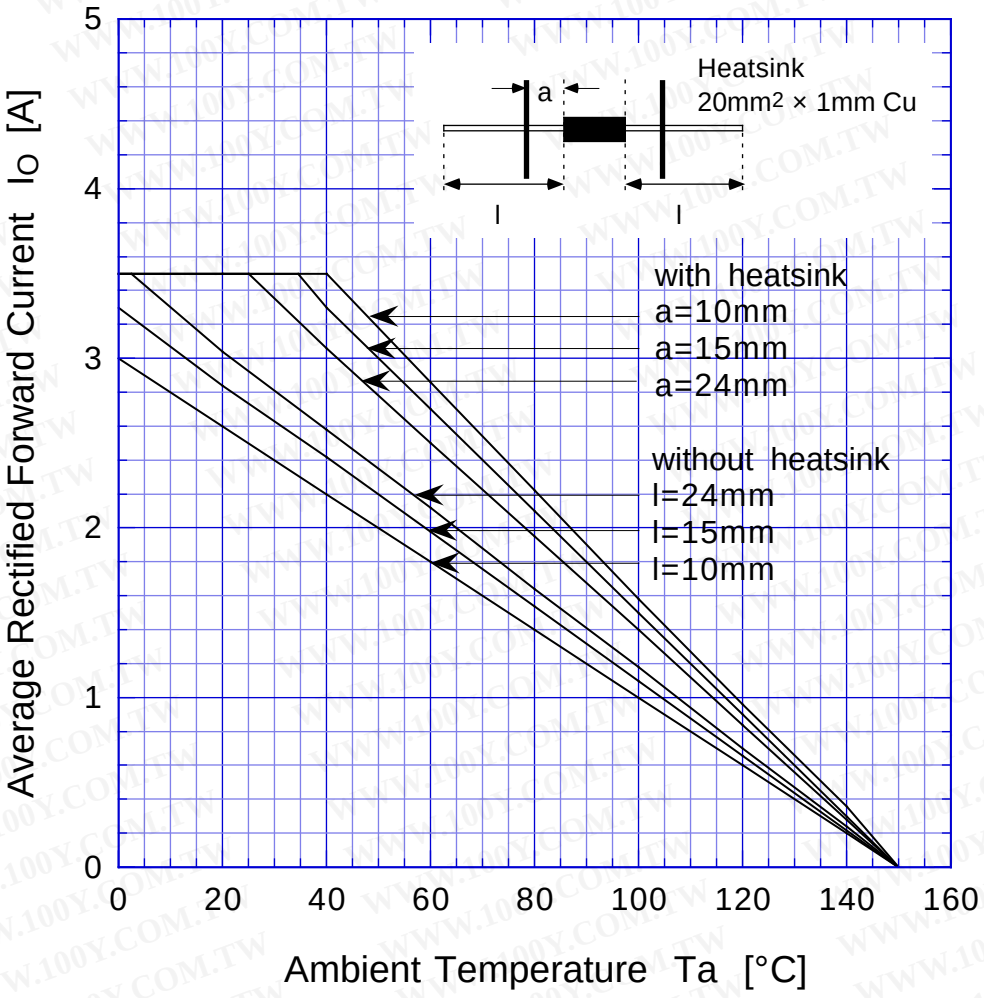
Tj = 150°C
Sine wave

S3Vx

Peak Surge Forward Capability



S3Vx Derating Curve



Sine wave
R-load
Free in air