

# SHINDENGEN

## General Purpose Rectifiers

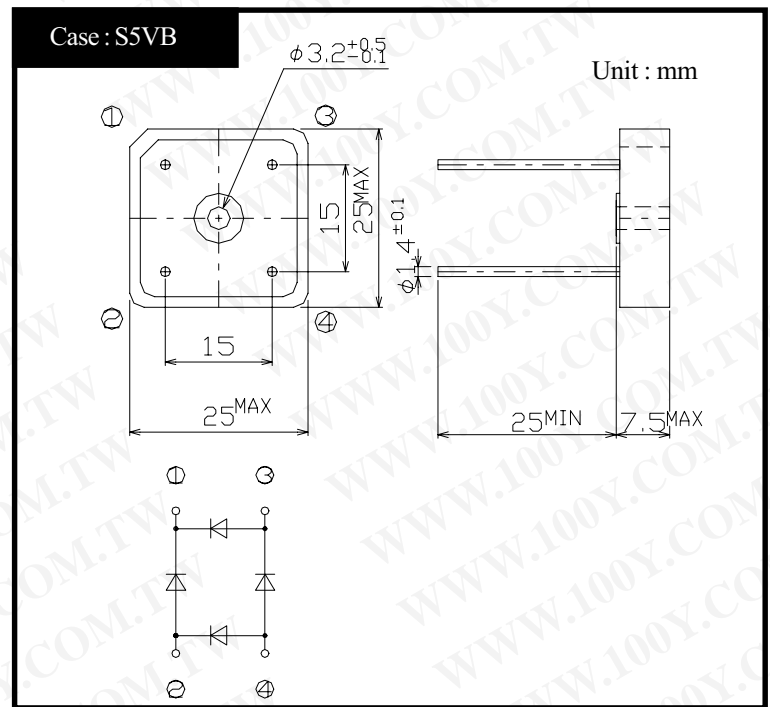
Square In-line Package

# S5VB20

## 200V 6A

勝特力材料 886-3-5753170  
 勝特力电子(上海) 86-21-34970699  
 勝特力电子(深圳) 86-755-83298787  
[Http://www.100y.com.tw](http://www.100y.com.tw)

### OUTLINE DIMENSIONS



### RATINGS

#### ● Absolute Maximum Ratings

Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	$T_{stg}$		-40~150	°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, $T_a=40^\circ\text{C}$ With heatsink $\theta_{fa}=6.4^\circ\text{C/W}$	6	A
		50Hz sine wave, R-load, $T_a=40^\circ\text{C}$ Without heatsink	3.5	
Peak Surge Forward Current	$I_{FSM}$	50Hz sine wave, Non-repetitive 1cycle peak value, $T_j=25^\circ\text{C}$	200	A
Current Squared Time	$I^2t$	$2\text{ms} \leq t < 10\text{ms}$ $T_j=25^\circ\text{C}$	150	$\text{A}^2\text{s}$
Mounting Torque	TOR	(Recommended torque : 0.5N·m)	0.8	N·m

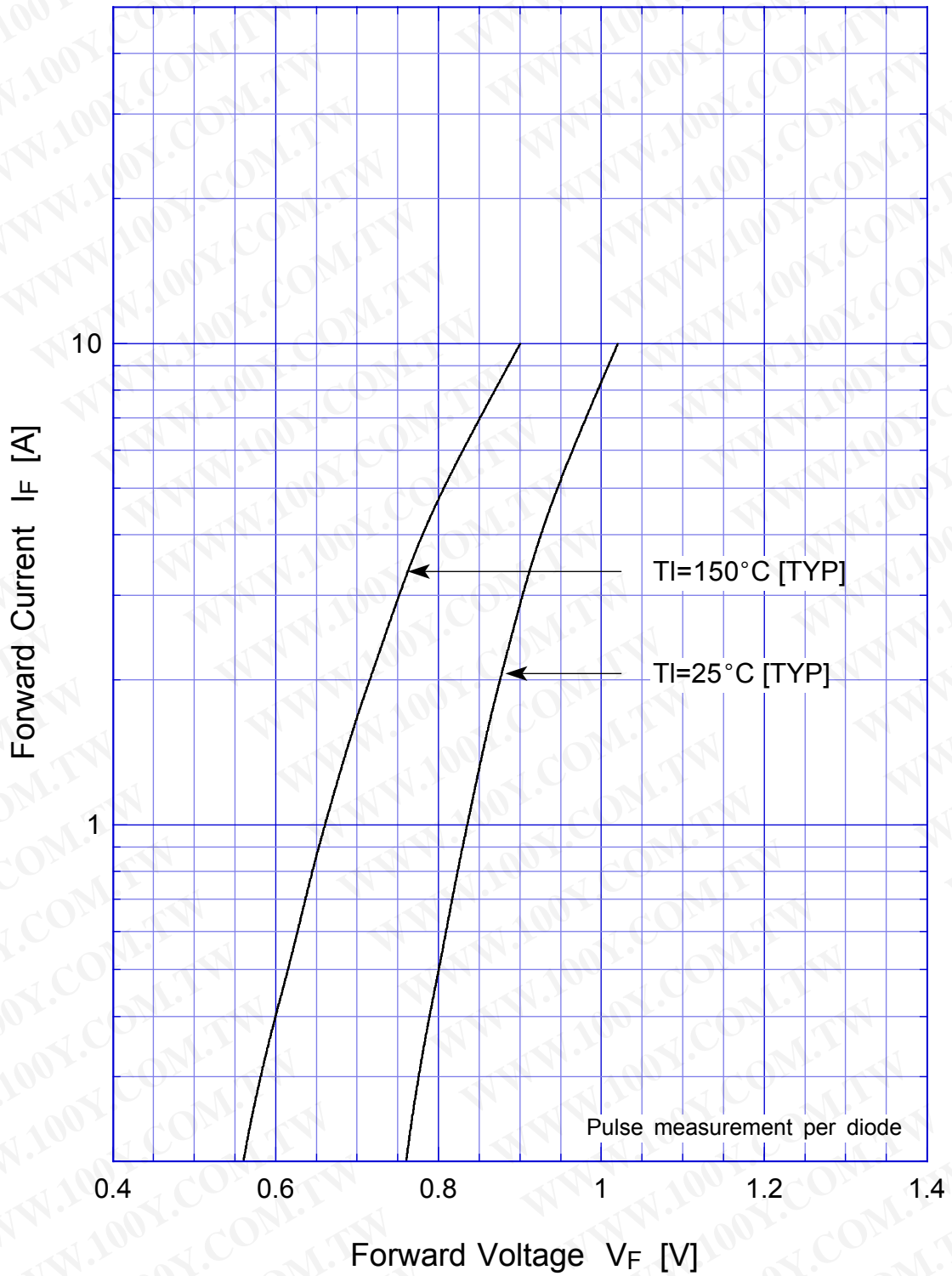
#### ● Electrical Characteristics ( $T_l=25^\circ\text{C}$ )

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	$V_F$	$I_F=3\text{A}$ , Pulse measurement, Rating of per diode	Max.1.05	V
Reverse Current	$I_R$	$V_R=V_{RM}$ , Pulse measurement, Rating of per diode	Max.10	$\mu\text{A}$
Thermal Resistance	$\theta_{jl}$	junction to lead	Max.3	°C/W

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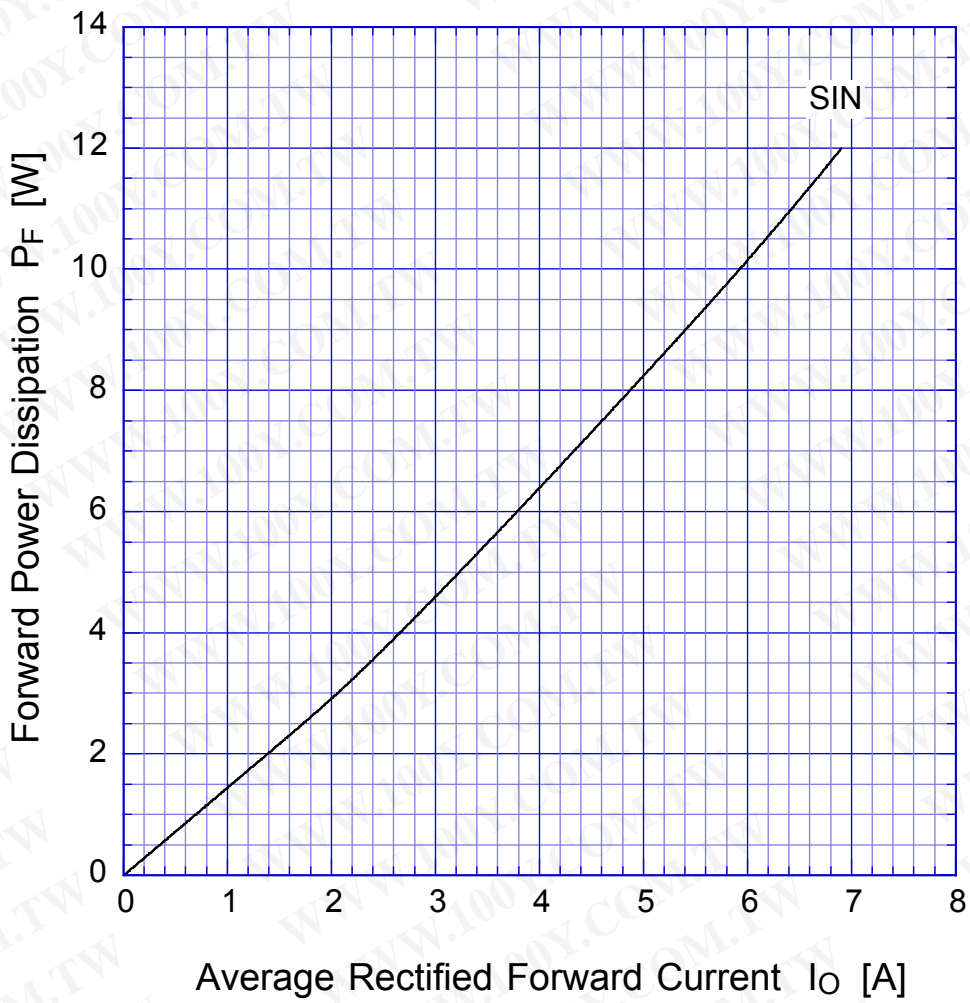
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Forward Voltage



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Forward Power Dissipation

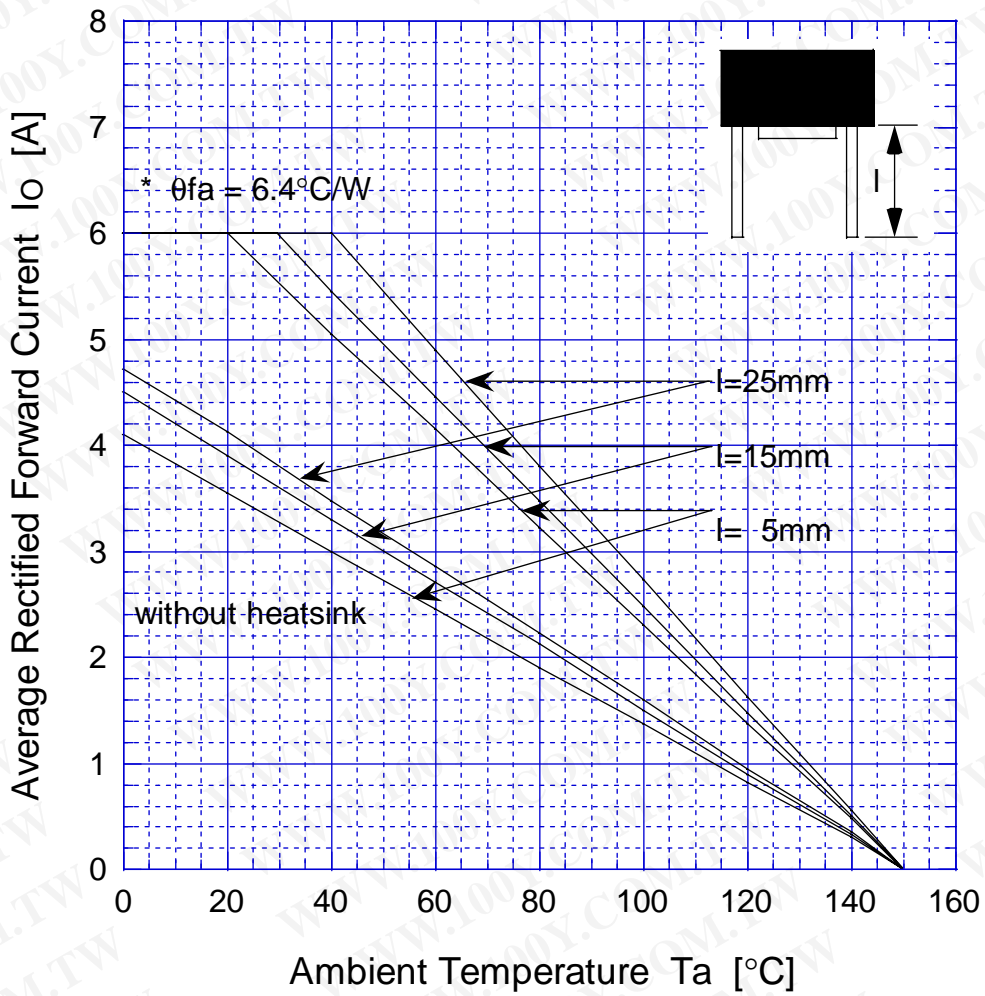


$T_j = 150^\circ\text{C}$   
Sine wave

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# Derating Curve



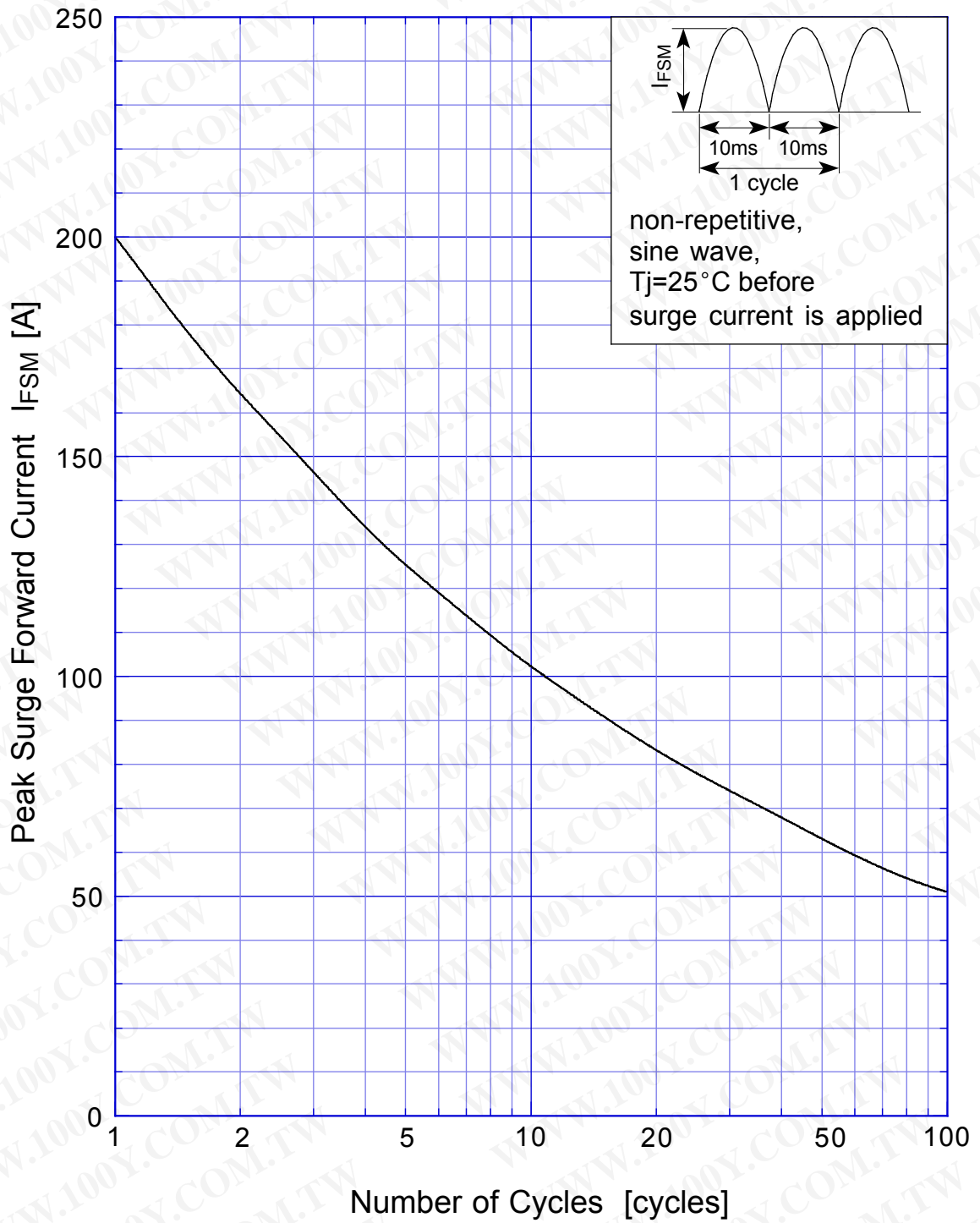
Sine wave  
R-load  
Free in air

\* with thermal compound, TOR=0.5N-m

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## Peak Surge Forward Capability



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