

SHINDENGEN

Schottky Rectifiers (SBD)

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[Http://www.100y.com.tw](http://www.100y.com.tw)

Dual

S30SC4M

40V 30A

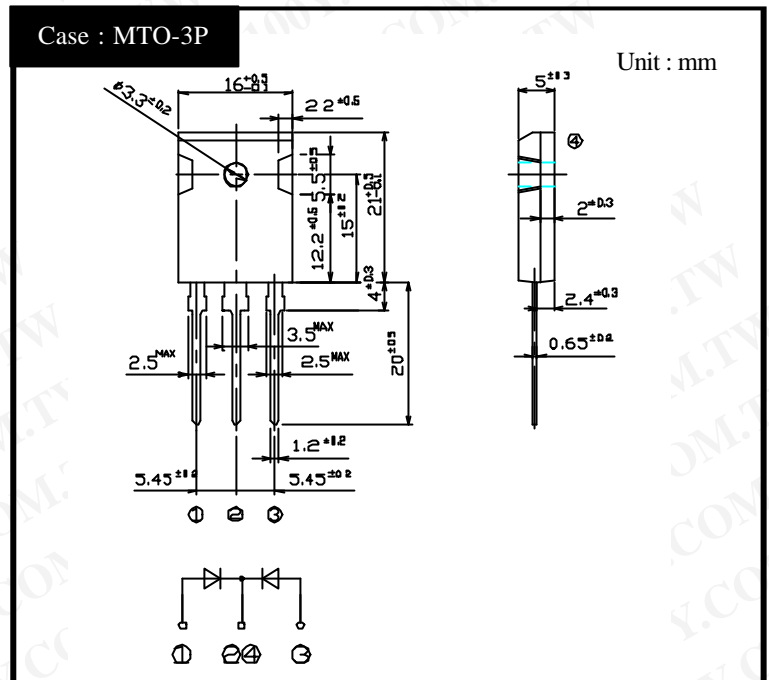
FEATURES

- Tj150
- PRRSM avalanche guaranteed
- Small jc
- High current capacity

APPLICATION

- Switching power supply
- DC/DC converter
- Home Appliances, Office Equipment
- Telecommunication

OUTLINE DIMENSIONS



RATINGS

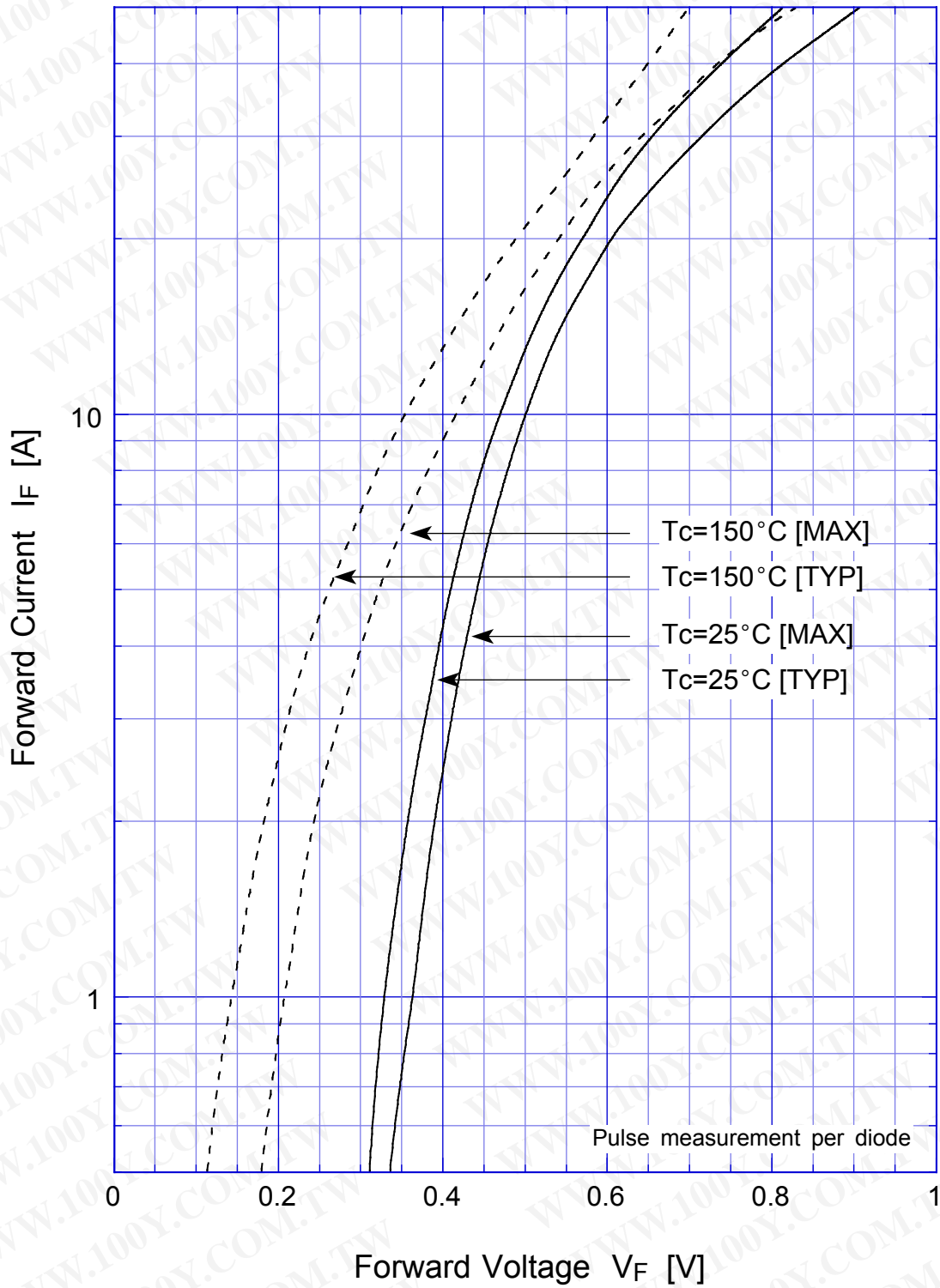
Absolute Maximum Ratings (If not specified Tc=25)

Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-40 ~ 150	
Operating Junction Temperature	Tj		150	
Maximum Reverse Voltage	VRM		40	V
Repetitive Peak Surge Reverse Voltage	VRRSM	Pulse width 0.5ms, duty 1/40	45	V
Average Rectified Forward Current	IO	50Hz sine wave, R-load, Rating for each diode IO/2, Tc=126	30	A
Peak Surge Forward Current	IFSM	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=125	300	A
Repetitive Peak Surge Reverse Power	PRRSM	Pulse width 10 μs, Rating of per diode, Tj=25	1000	W
Mounting Torque	TOR	(Recommended torque :0.5N·m)	0.8	N·m

Electrical Characteristics (If not specified Tc=25)

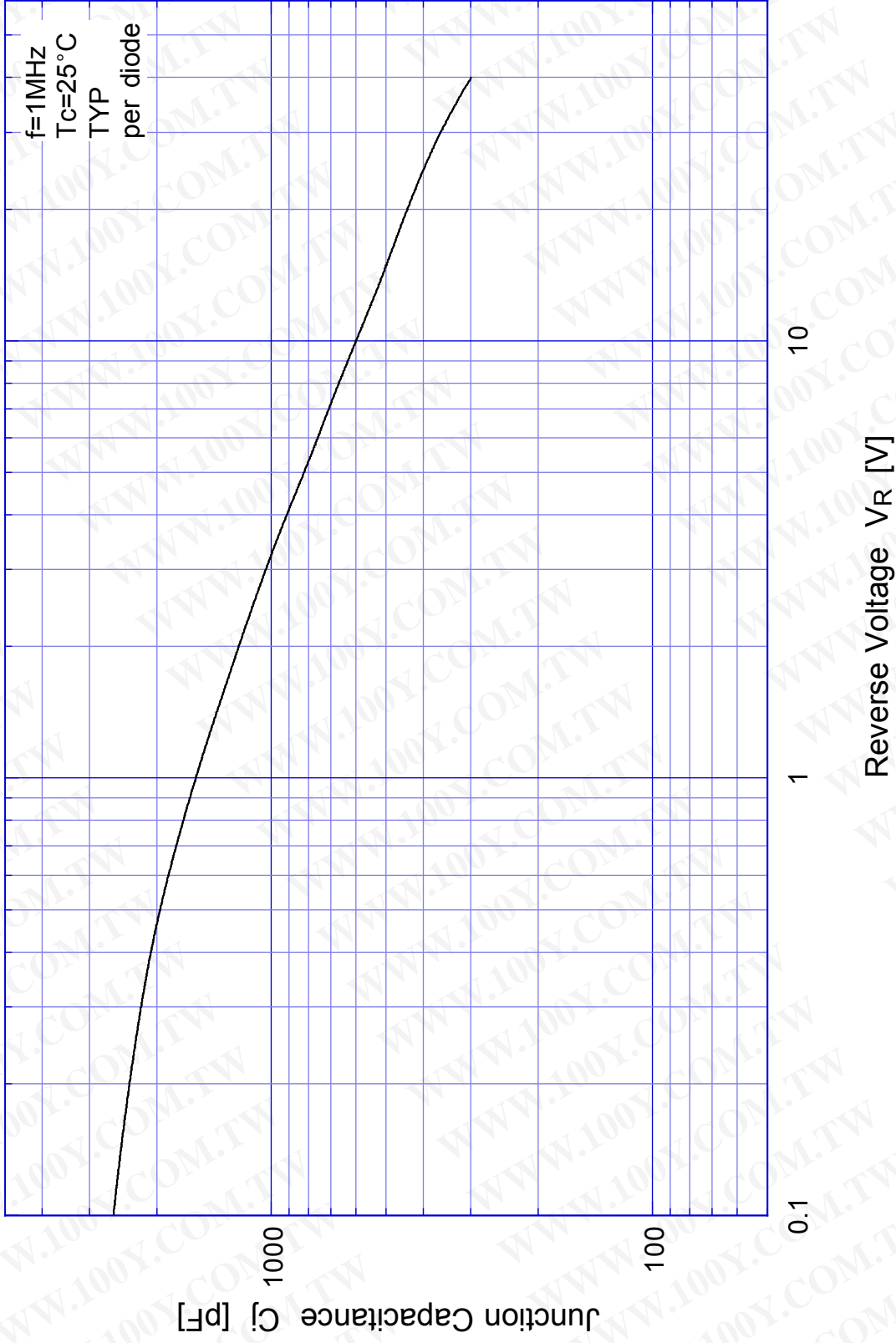
Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	VF	IF=15A, Pulse measurement, Rating of per diode	Max.0.55	V
Reverse Current	IR	VR=VRM, Pulse measurement, Rating of per diode	Max.10	mA
Junction Capacitance	Cj	f=1MHz, VR=10V, Rating of per diode	Typ.590	pF
Thermal Resistance	jc	junction to case	Max.1.0	/W

S30SC4M Forward Voltage

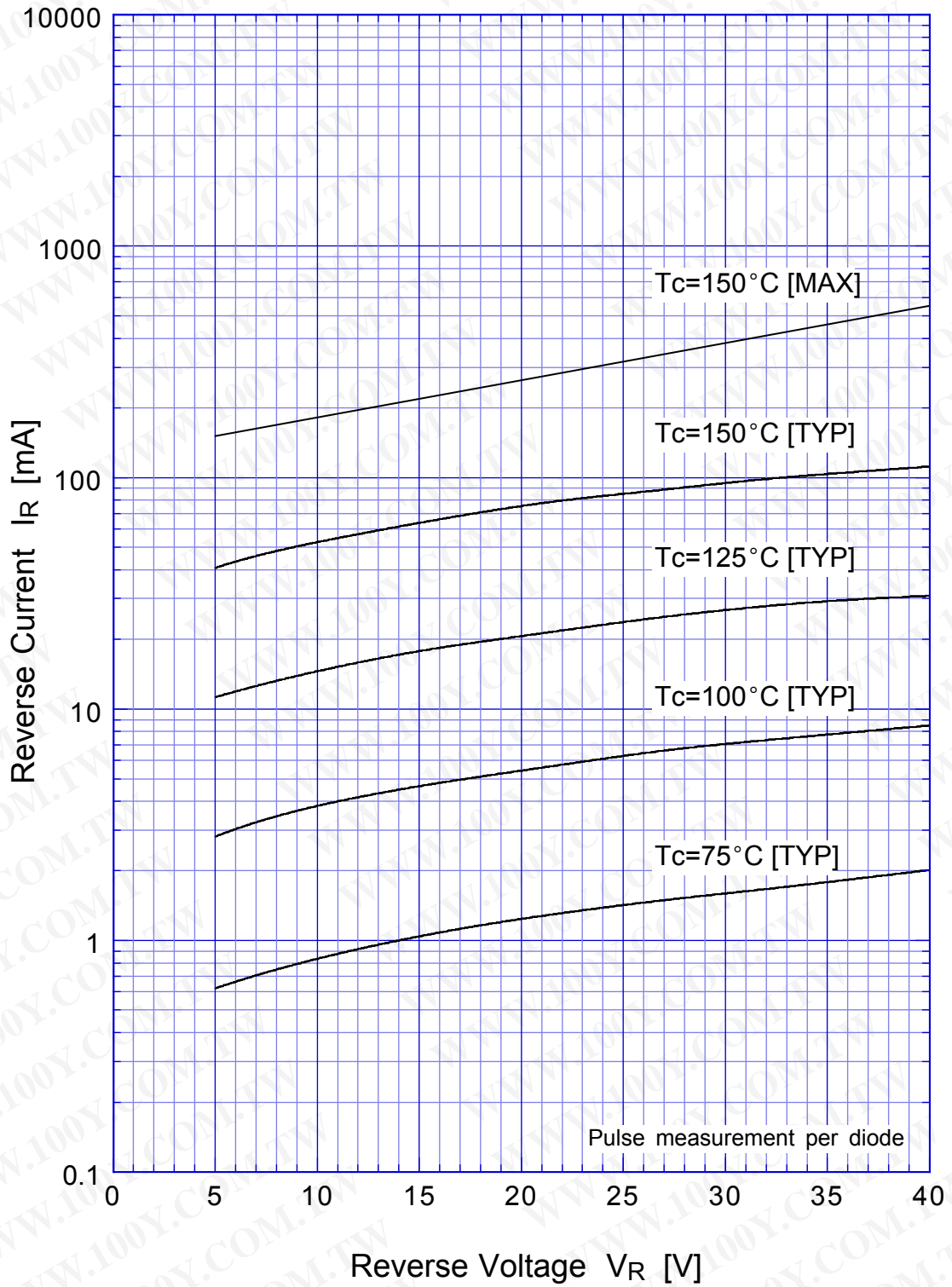


S30SC4M

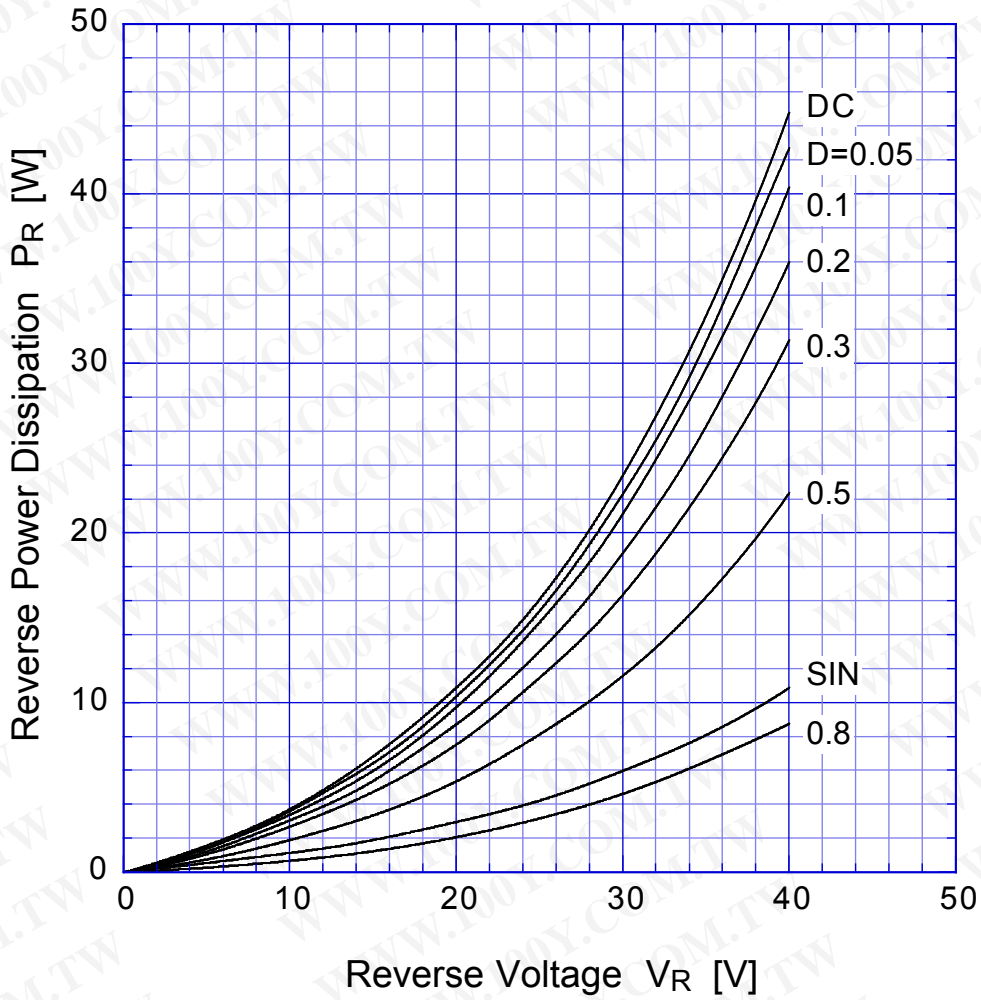
Junction Capacitance



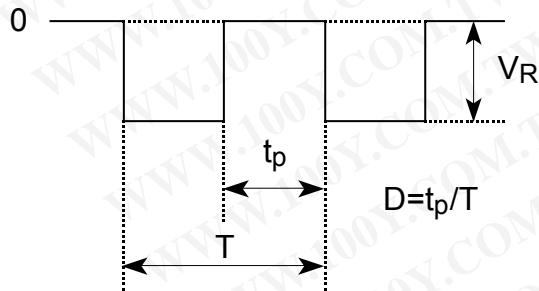
S30SC4M Reverse Current



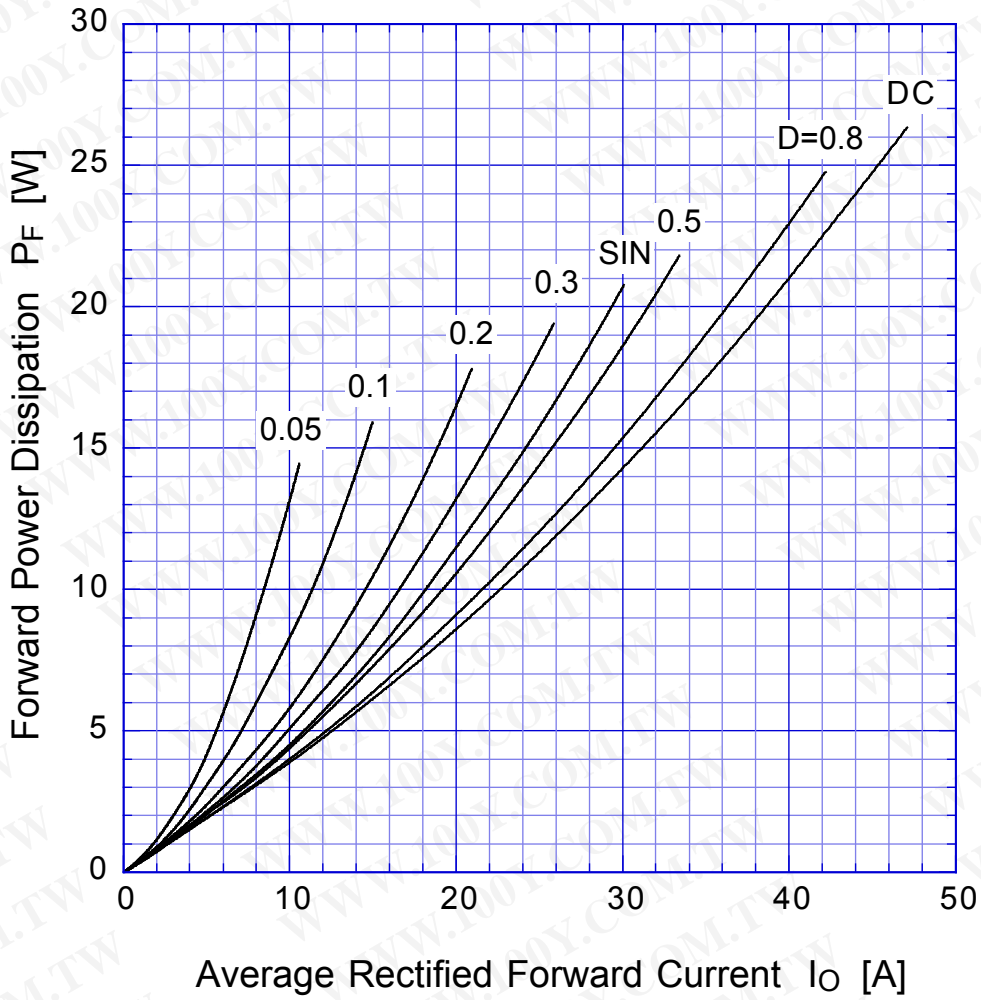
S30SC4M Reverse Power Dissipation



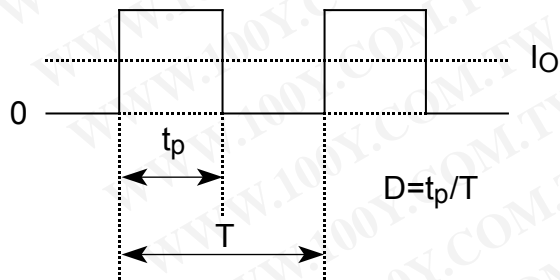
$T_j = 150^\circ\text{C}$



S30SC4M Forward Power Dissipation

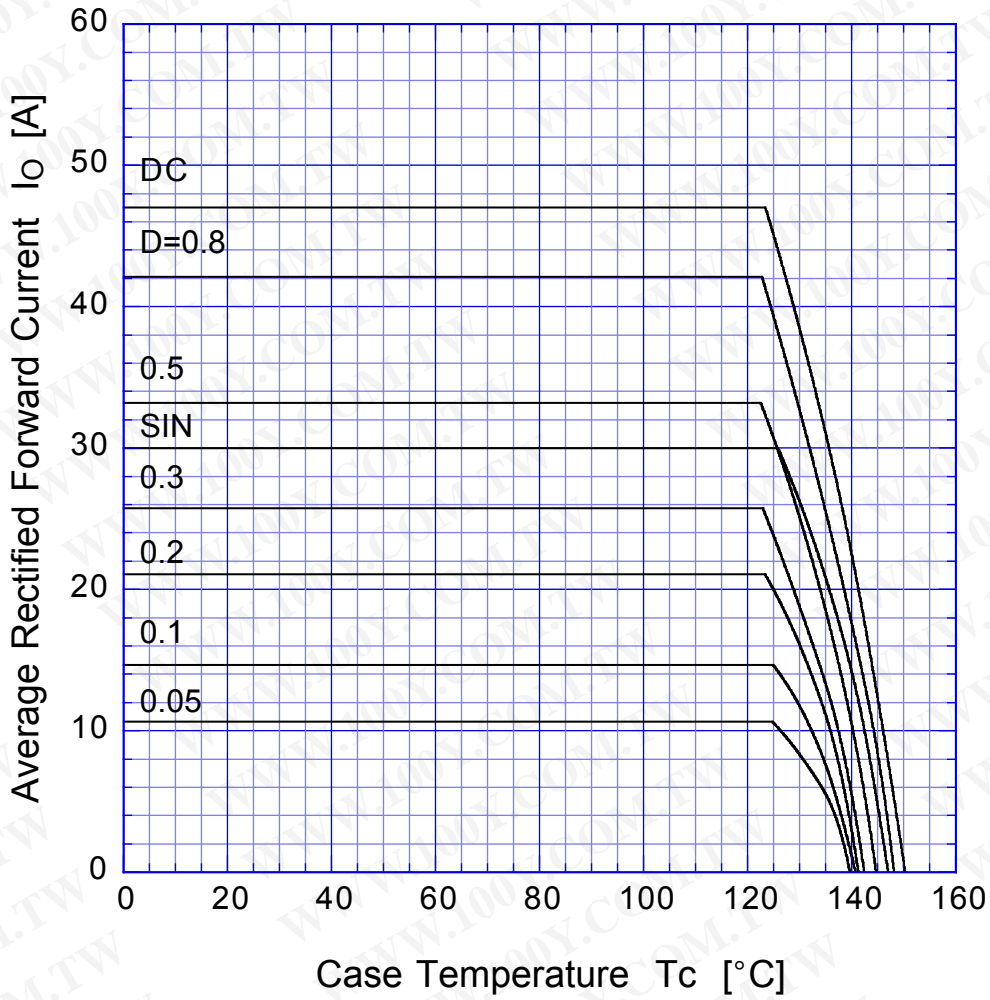


$T_j = 150^\circ\text{C}$

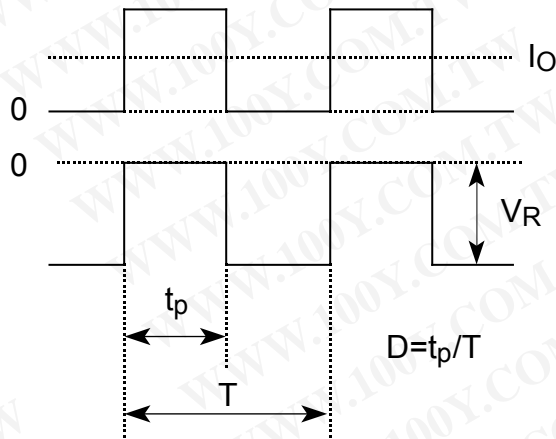


S30SC4M

Derating Curve

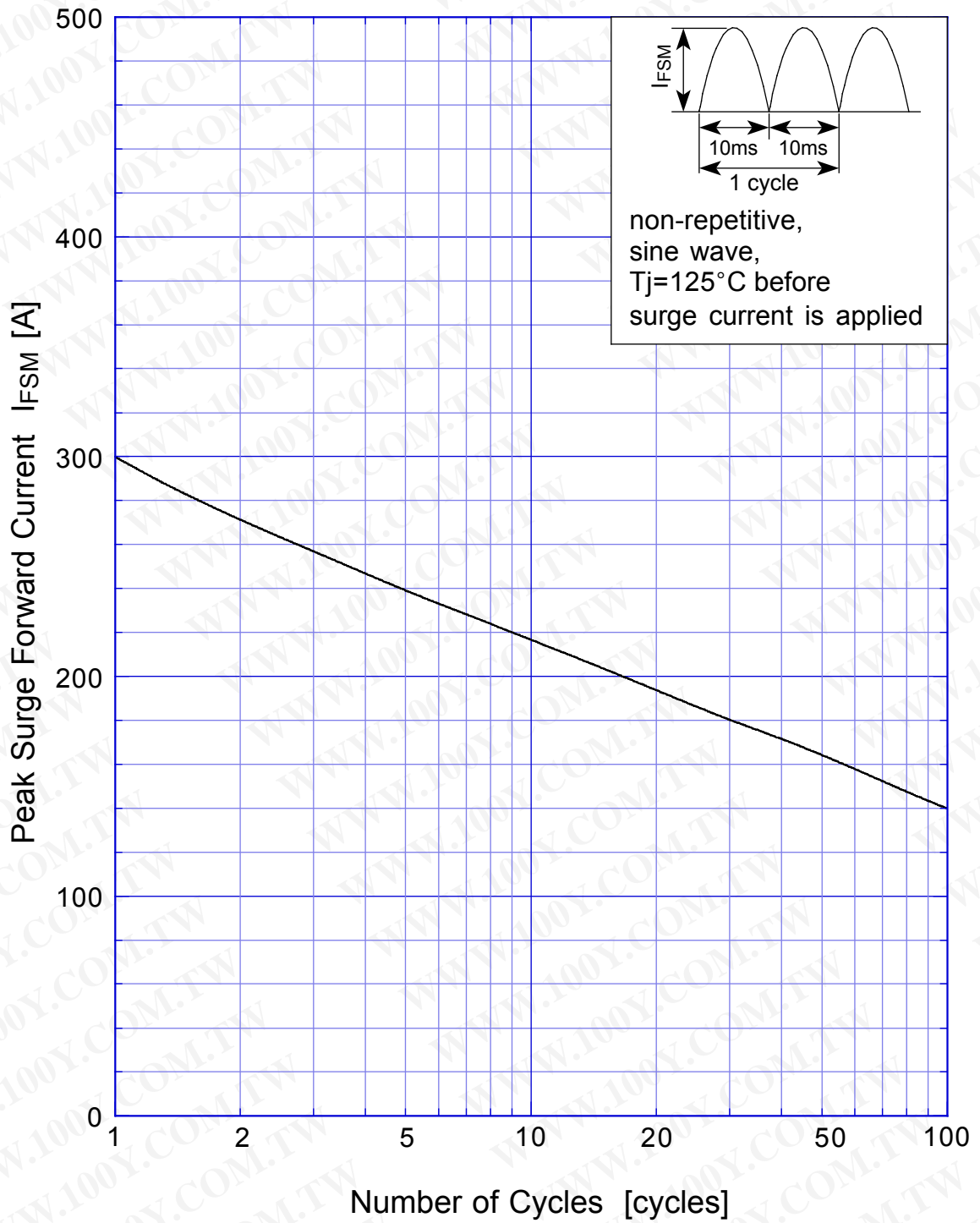


$V_R = 20V$

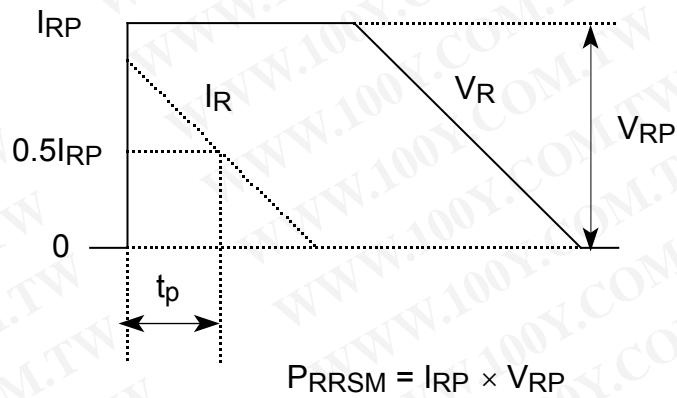
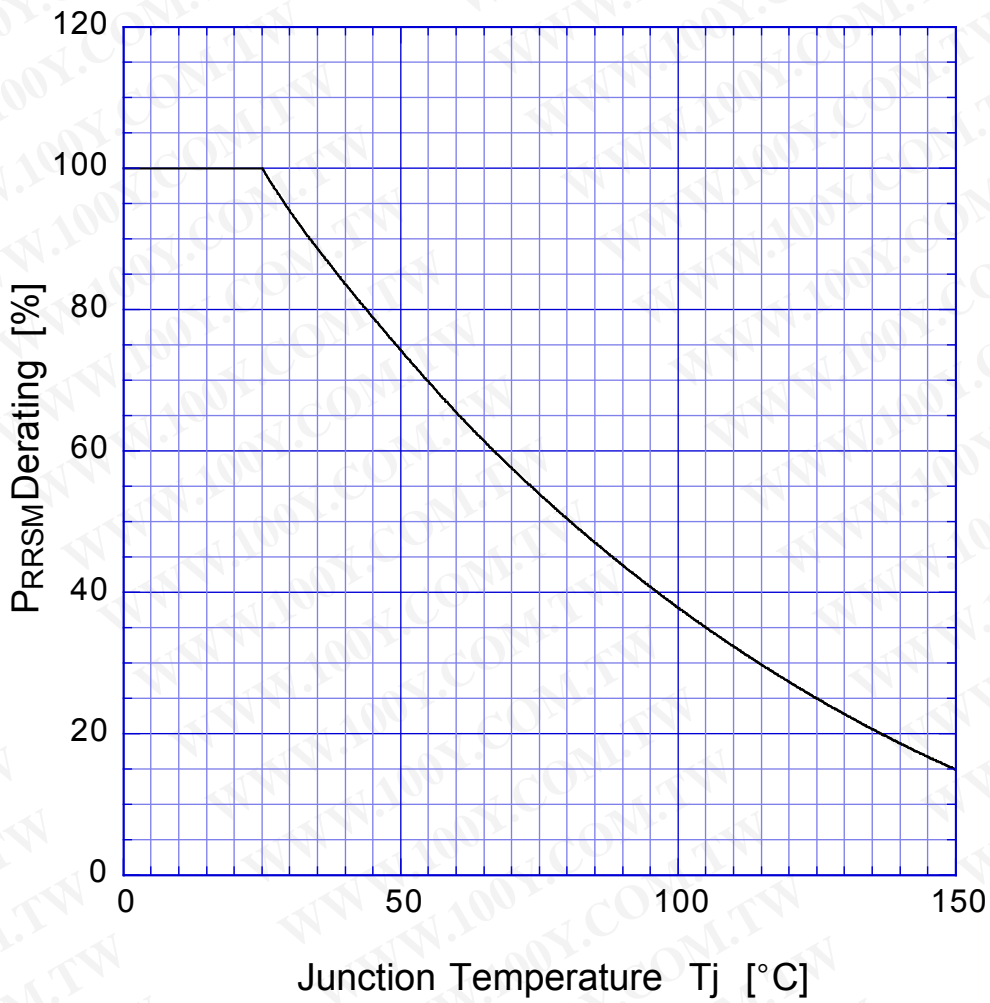


S30SC4M

Peak Surge Forward Capability



SBD Repetitive Surge Reverse Power Derating Curve



SBD

Repetitive Surge Reverse Power Capability

