

SHINDENGEN

Schottky Rectifiers (SBD)

Dual

S30SC4M

40V 30A

FEATURES

T_j150

P_{RRSM} avalanche guaranteed

Small j_c

High current capacity

APPLICATION

Switching power supply

DC/DC converter

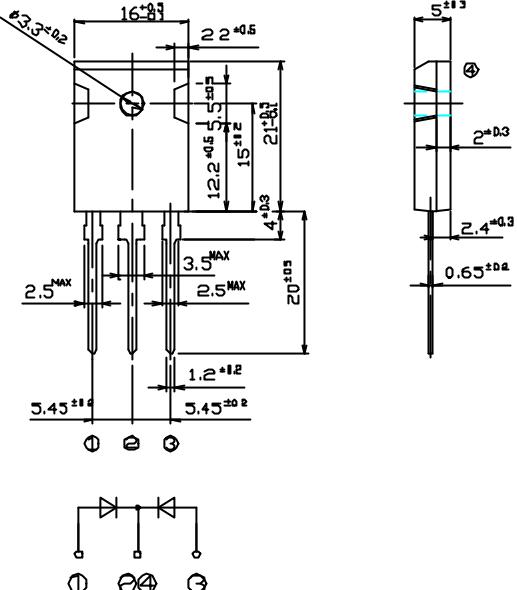
Home Appliances, Office Equipment

Telecommunication

OUTLINE DIMENSIONS

Case : MTO-3P

Unit : mm



RATINGS

Absolute Maximum Ratings (If not specified T_c=25)

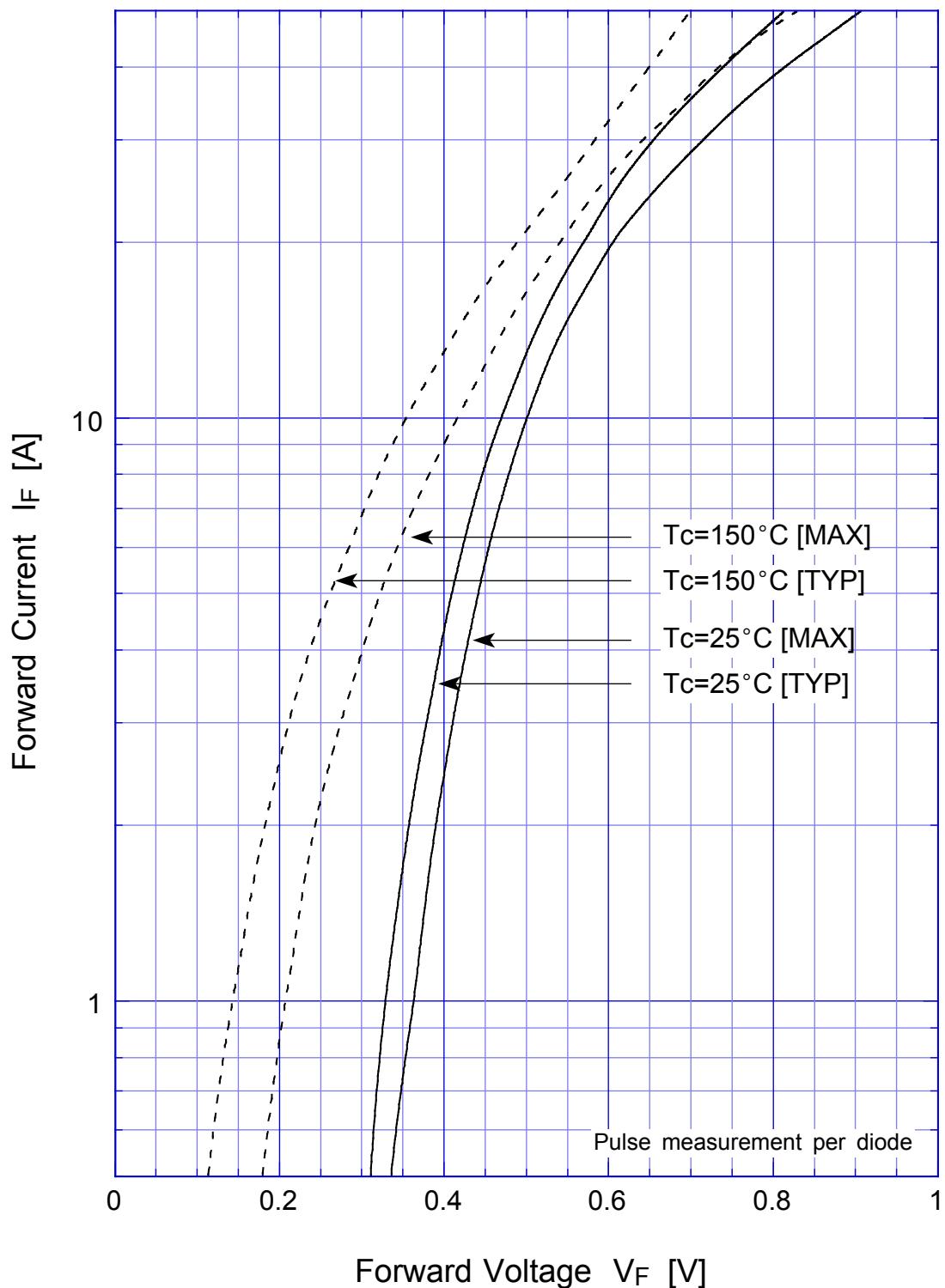
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	T _{stg}		-40 ~ 150	
Operating Junction Temperature	T _j		150	
Maximum Reverse Voltage	V _{RM}		40	V
Repetitive Peak Surge Reverse Voltage	V _{RRSM}	Pulse width 0.5ms, duty 1/40	45	V
Average Rectified Forward Current	I _o	50Hz sine wave, R-load, Rating for each diode I _o /2, T _c =126	30	A
Peak Surge Forward Current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, T _j =125	300	A
Repetitive Peak Surge Reverse Power	P _{RRSM}	Pulse width 10 μ s. Rating of per diode, T _j =25	1000	W
Mounting Torque	T _{OR}	(Recommended torque :0.5N·m)	0.8	N·m

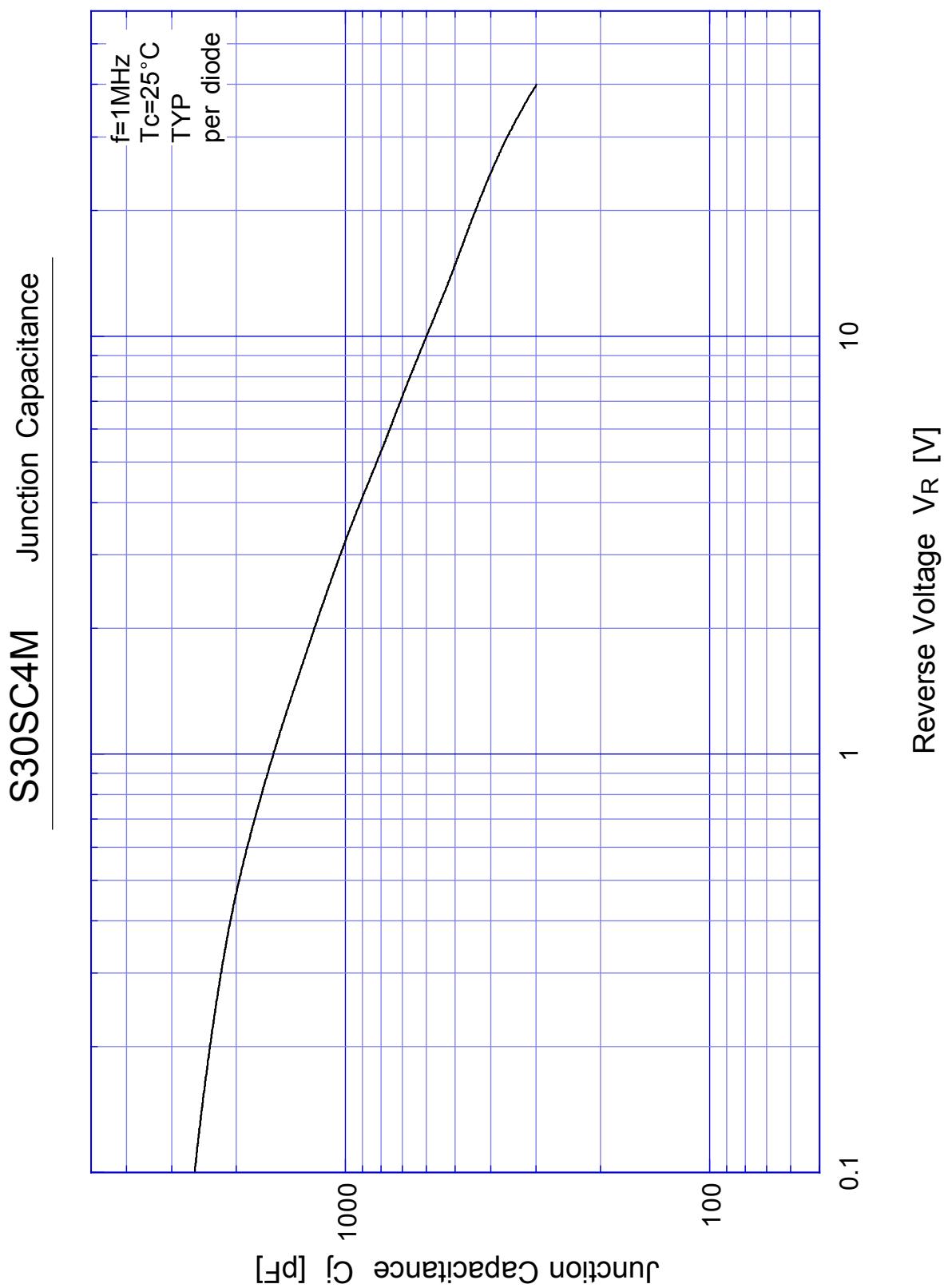
Electrical Characteristics (If not specified T_c=25)

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V _F	I _F =15A, Pulse measurement, Rating of per diode	Max.0.55	V
Reverse Current	I _R	V _R =V _{RM} , Pulse measurement, Rating of per diode	Max.10	mA
Junction Capacitance	C _j	f=1MHz, V _R =10V, Rating of per diode	Typ.590	pF
Thermal Resistance	j _c	junction to case	Max.1.0	/W

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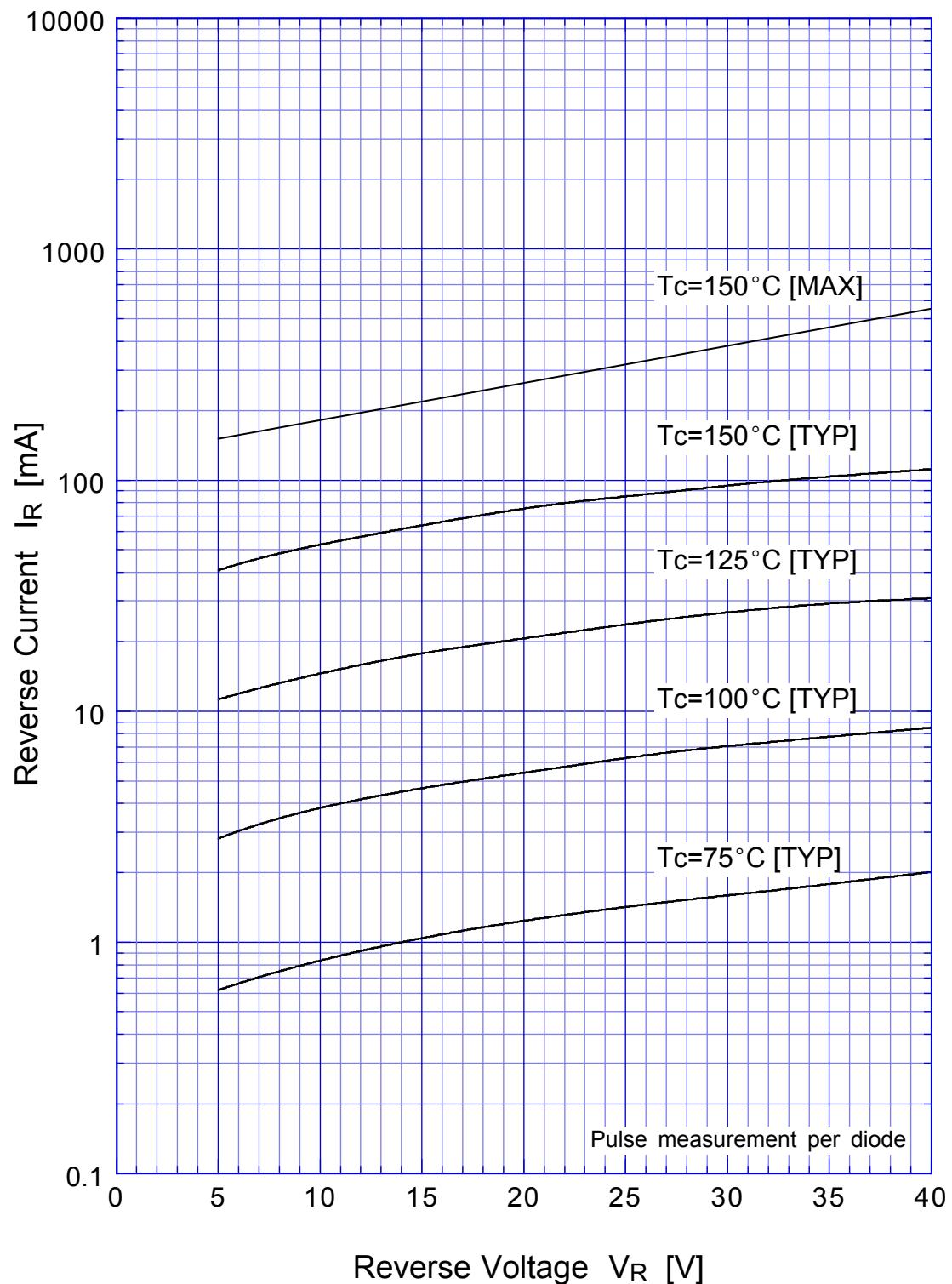
Forward Voltage



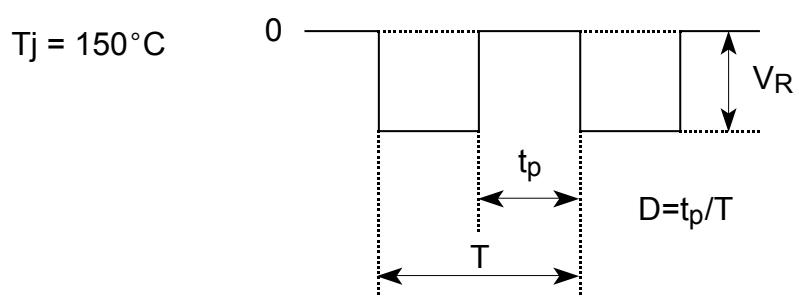
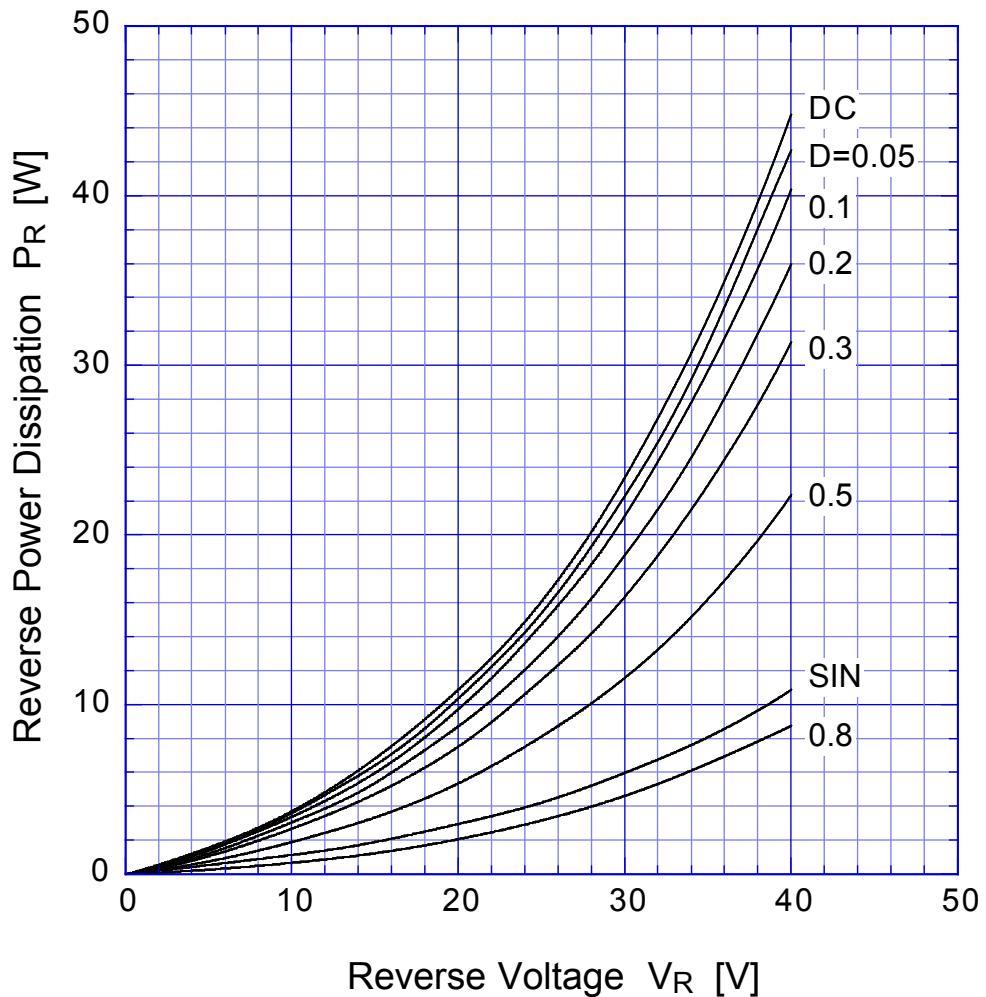


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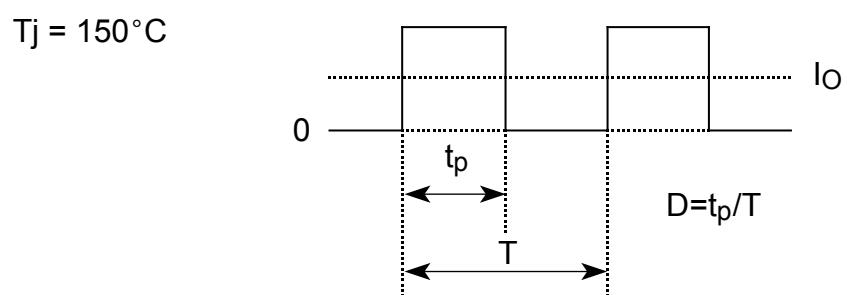
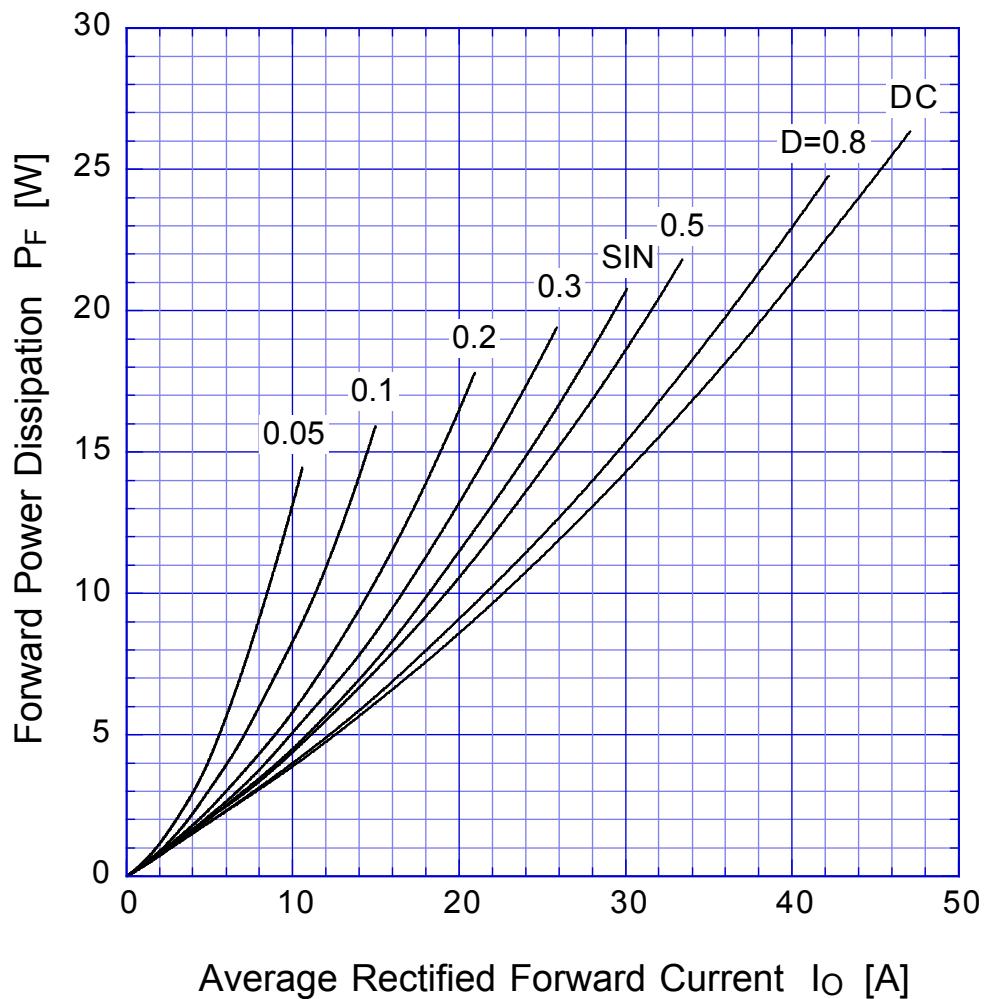
Reverse Current

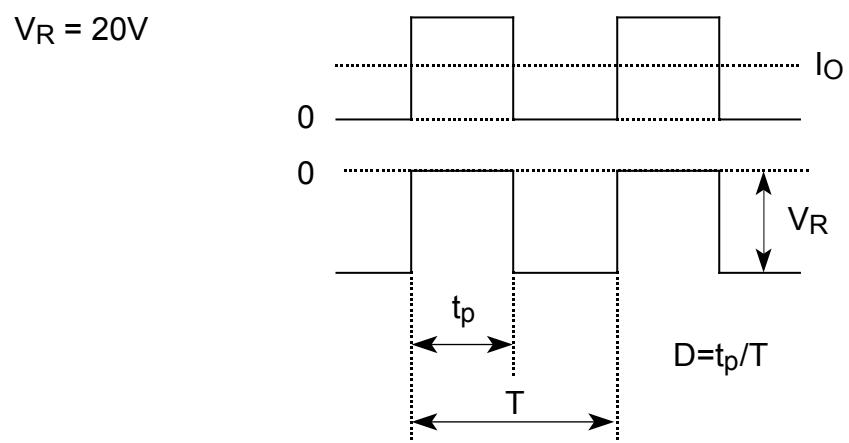
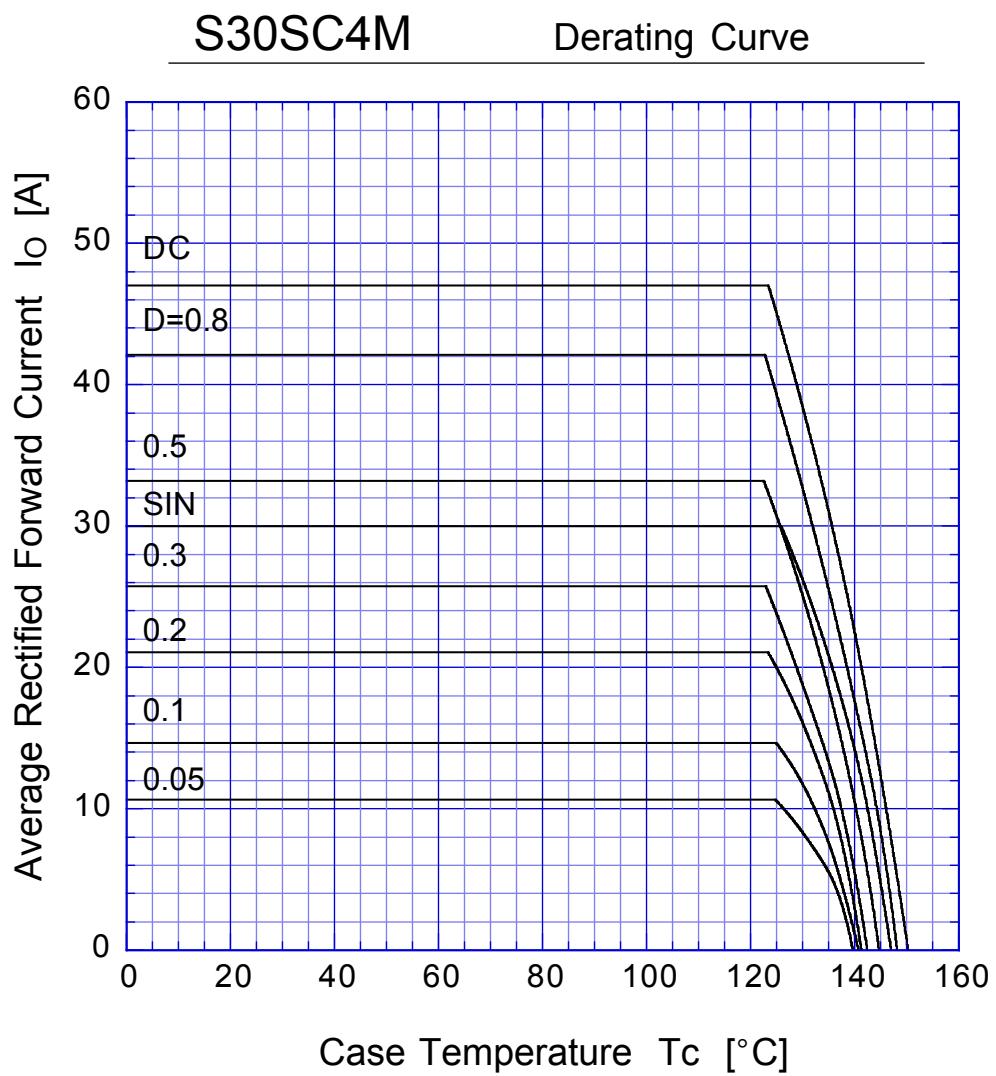


S30SC4M Reverse Power Dissipation

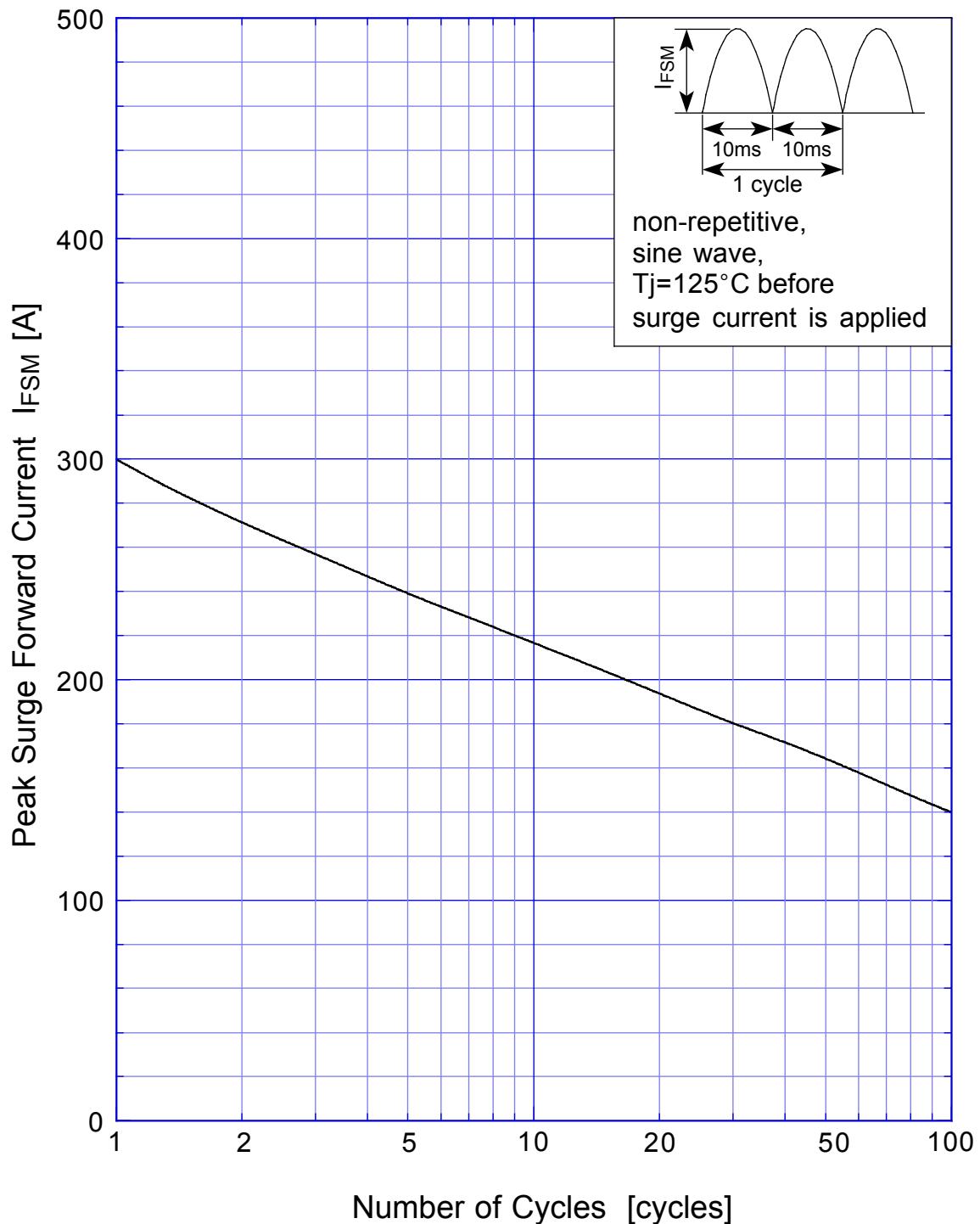


S30SC4M Forward Power Dissipation





S30SC4M Peak Surge Forward Capability



SBD Repetitive Surge Reverse Power Derating Curve



SBD Repetitive Surge Reverse Power Capability

