

SHINDENGEN

Schottky Rectifiers (SBD)

Single

D5S4M

40V 5A

FEATURES

T_j150

P_{RRSM} avalanche guaranteed

Fully Isolated Molding

APPLICATION

Switching power supply

DC/DC converter

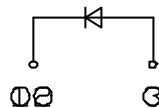
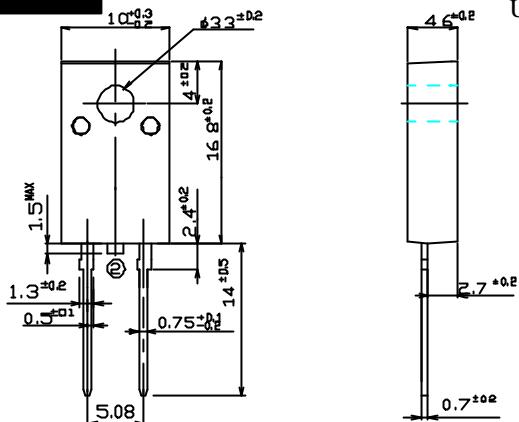
Home Appliances, Office Equipment

Telecommunication

OUTLINE DIMENSIONS

Case : ITO-220

Unit : mm



RATINGS

Absolute Maximum Ratings (If not specified T ≤ 25 °C)

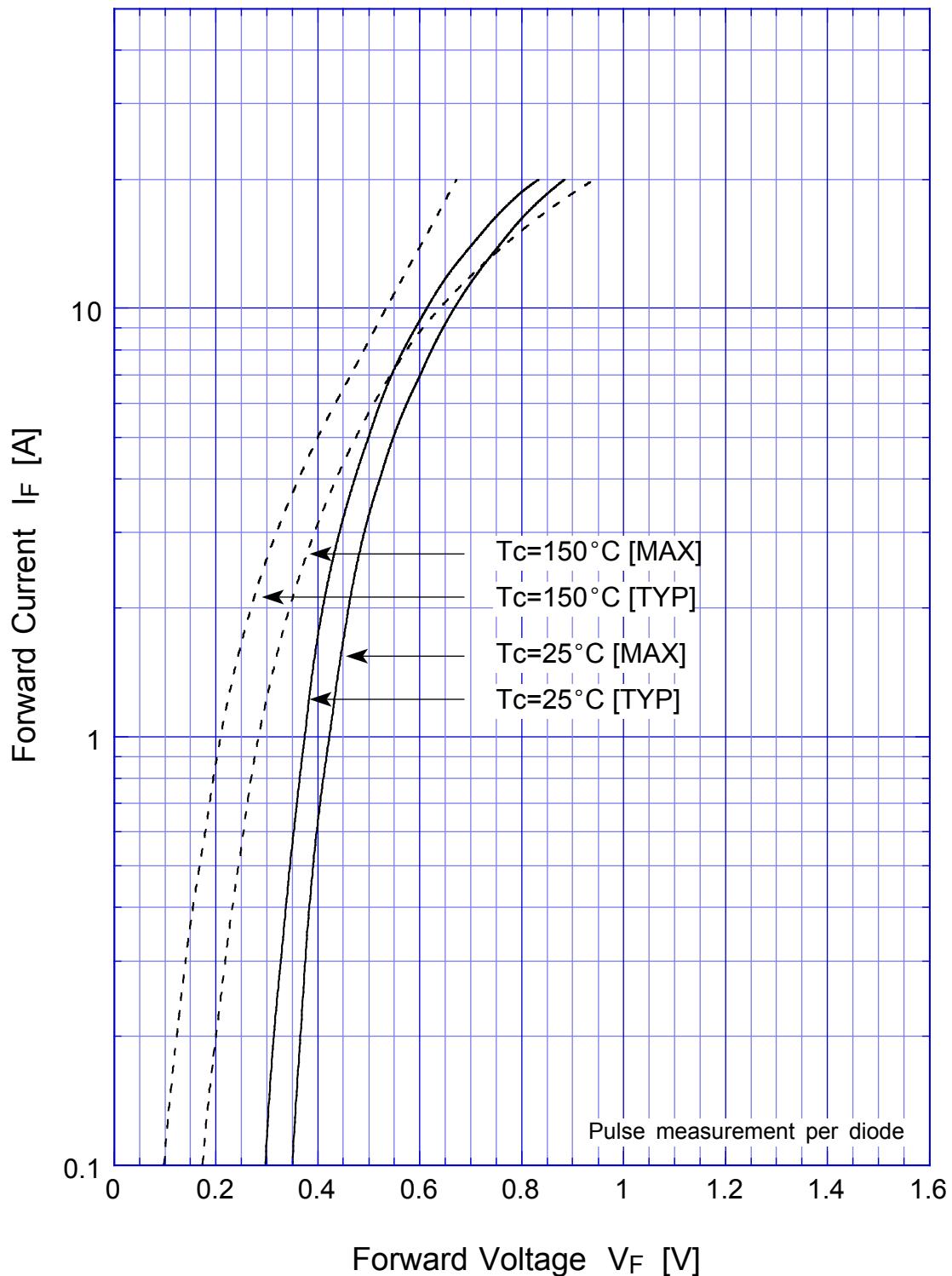
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	T _{Stg}		-40 ~ 150	
Operating Junction Temperature	T _j		150	
Maximum Reverse Voltage	V _{RM}		40	V
Repetitive Peak Surge Reverse Voltage	V _{RRSM}	Pulse width 0.5ms, duty 1/40	45	V
Average Rectified Forward Current	I _o	50Hz sine wave, R-load, T _c =131	5	A
Peak Surge Forward Current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, T _j =125	100	A
Repetitive Peak Surge Reverse Power	P _{RRSM}	Pulse width 10 μs, T _j =25	330	W
Dielectric Strength	V _{dis}	Terminals to case, AC 1 minute	1.5	kV
Mounting Torque	T _{oR}	(Recommended torque 0.3N·m)	0.5	N·m

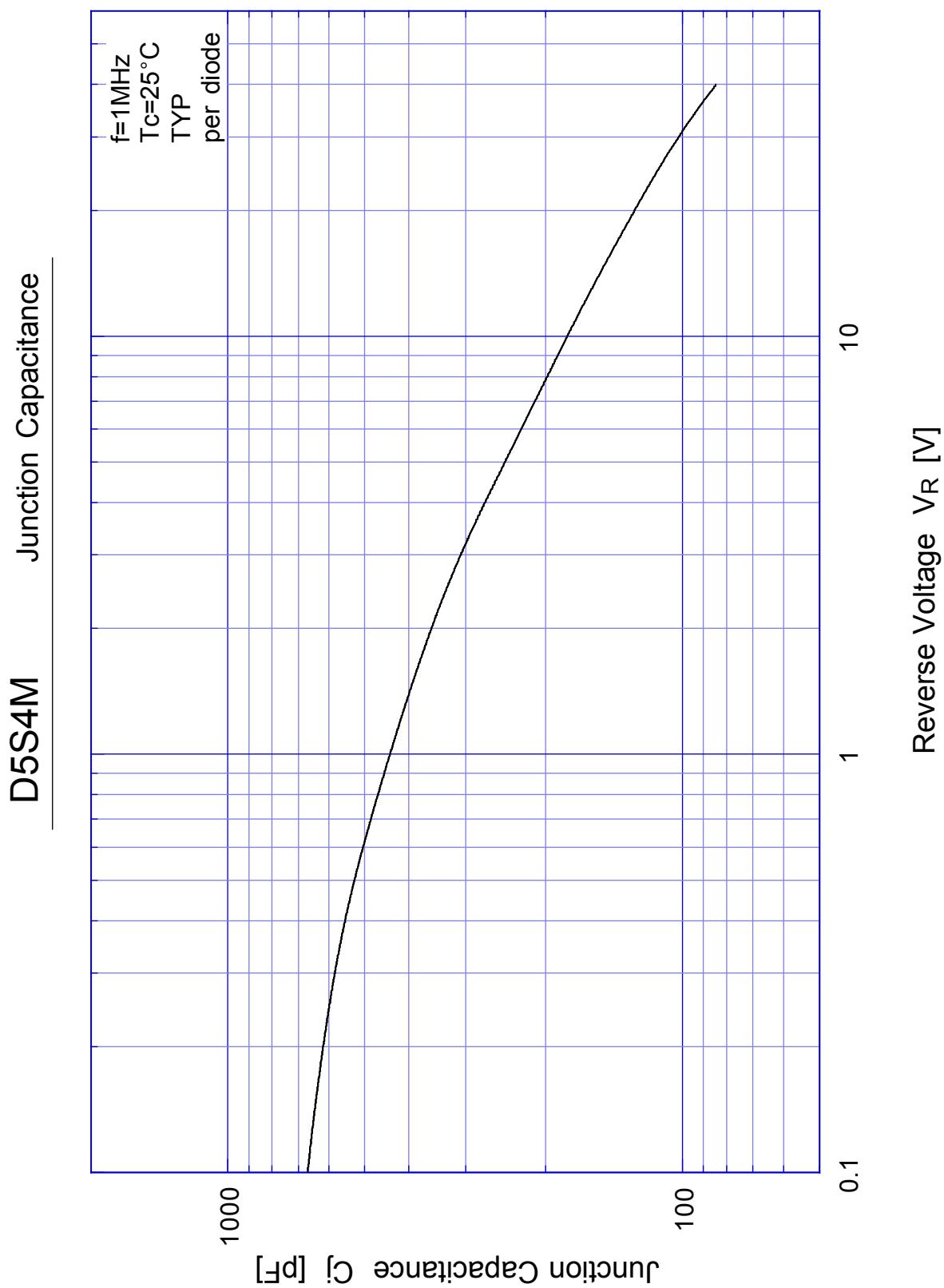
Electrical Characteristics (If not specified T ≤ 25 °C)

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V _F	I _F =5A, Pulse measurement	Max.0.55	V
Reverse Current	I _R	V _R =V _{RM} , Pulse measurement	Max. 3.5	mA
Junction Capacitance	C _j	f=1MHz, V _R =10V	Typ.180	pF
Thermal Resistance	j _C	junction to case	Max.4.5	/W
	c _f		Max.1.5	

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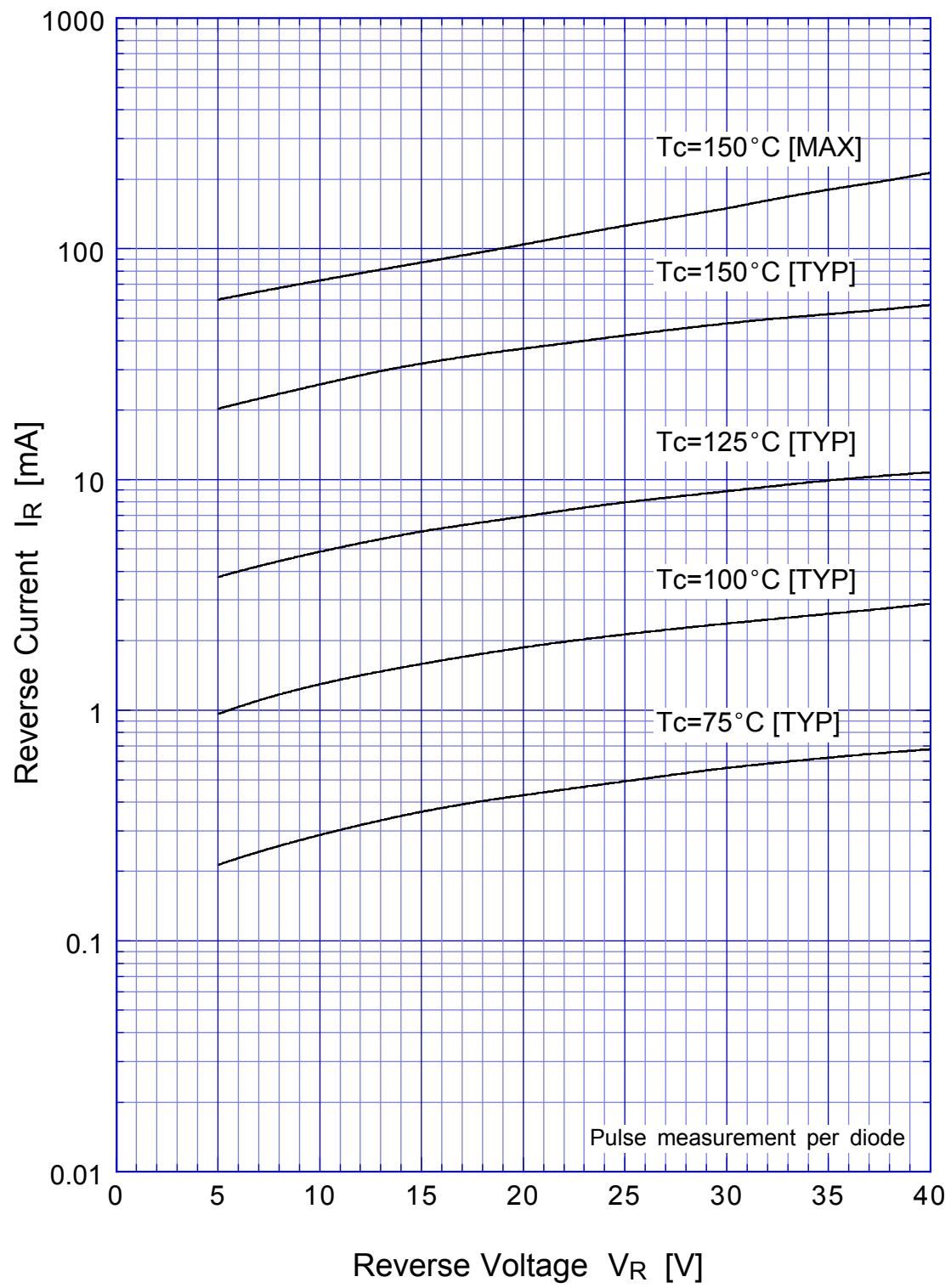
Forward Voltage

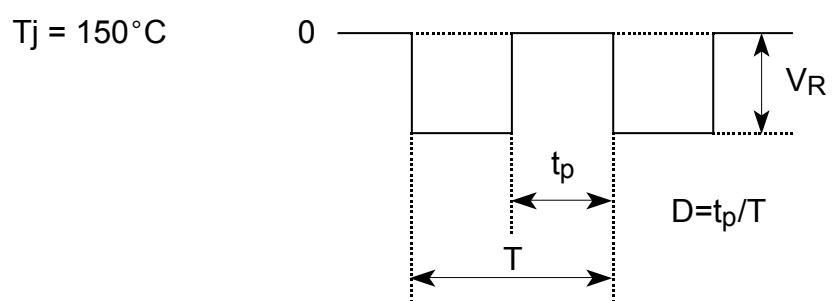
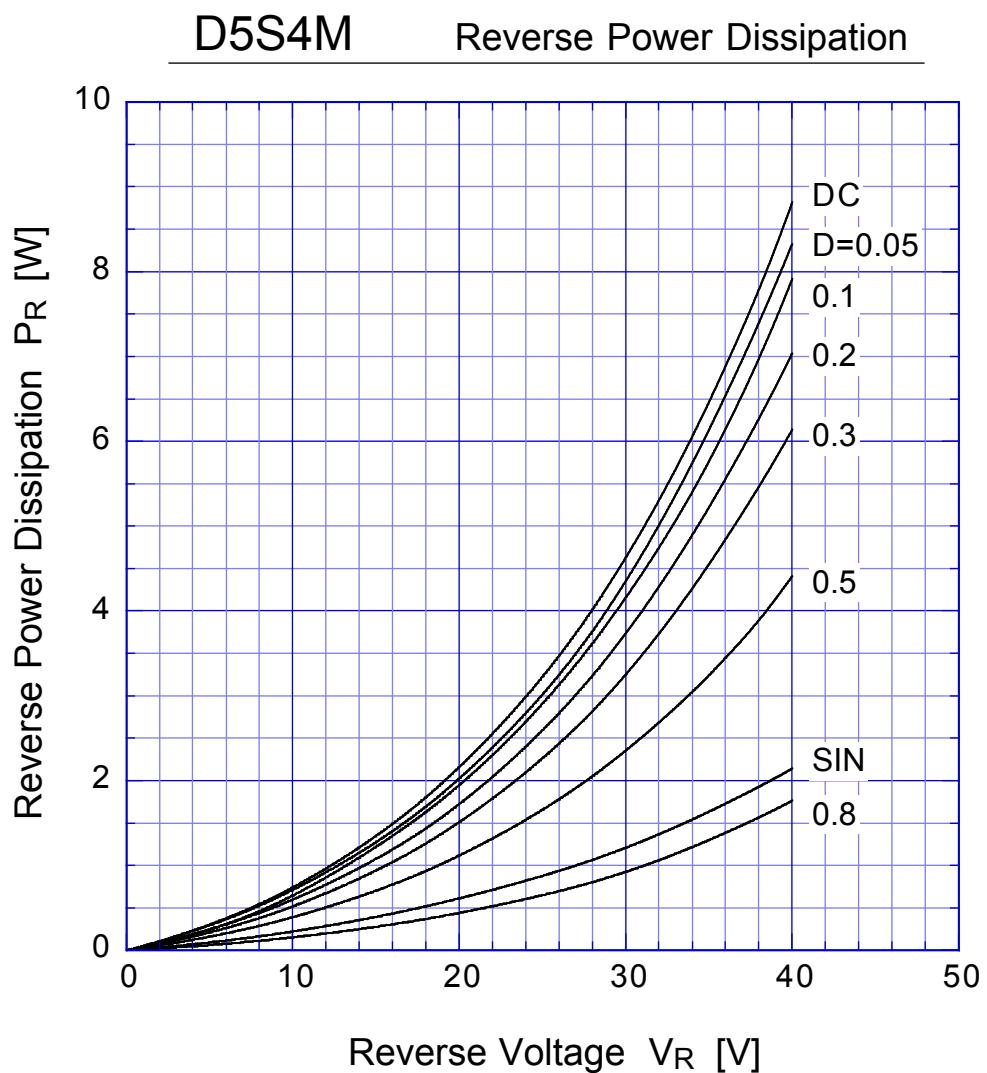


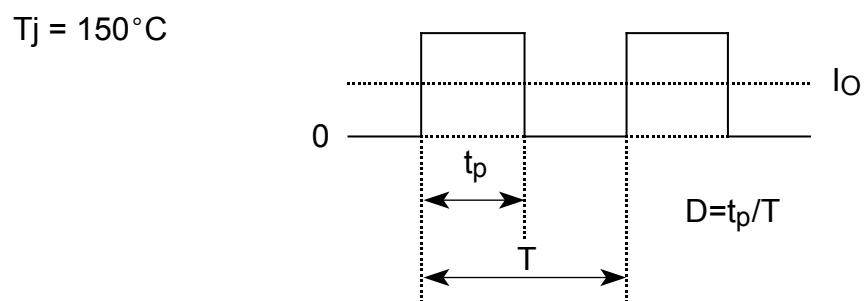
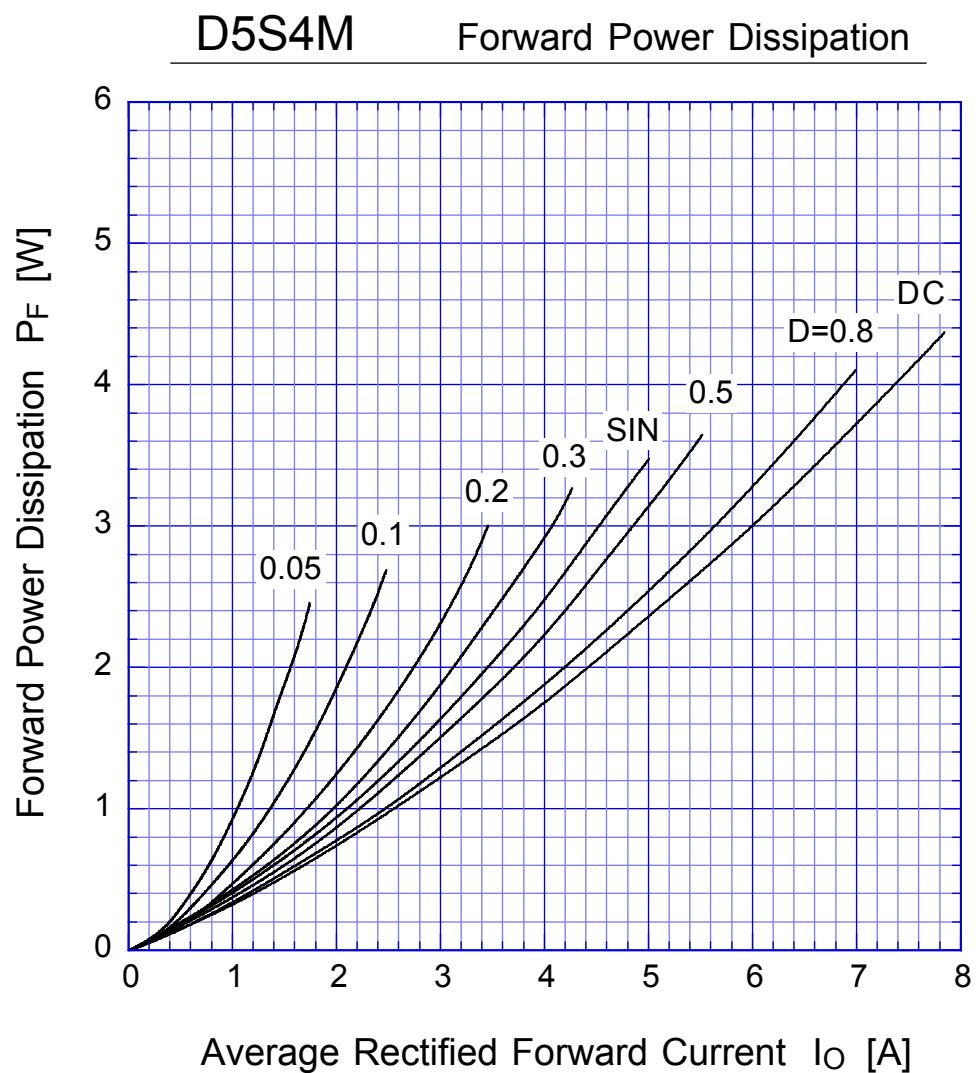


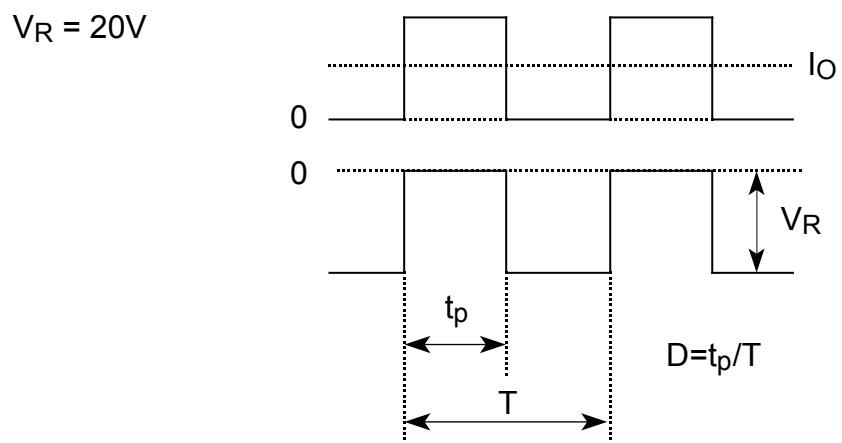
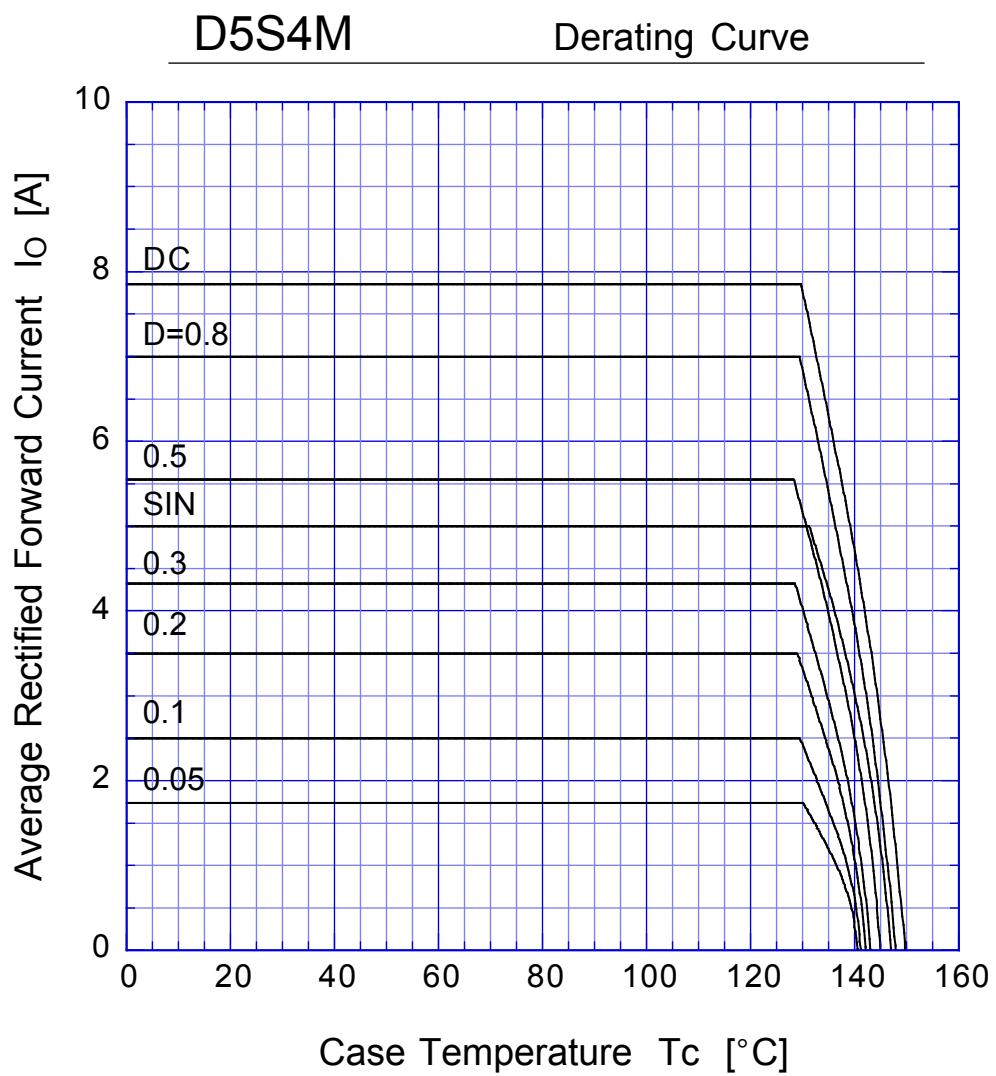
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Reverse Current



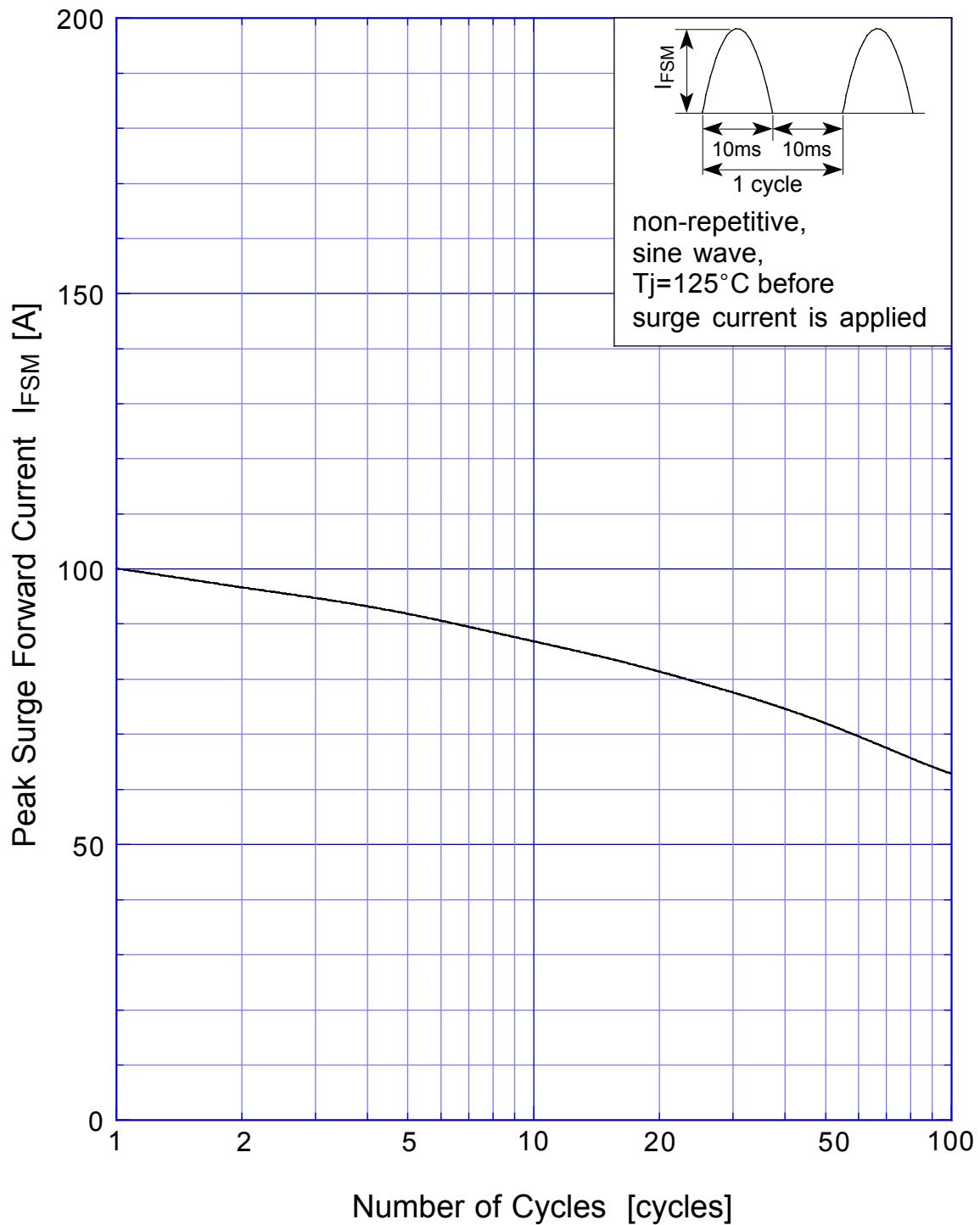




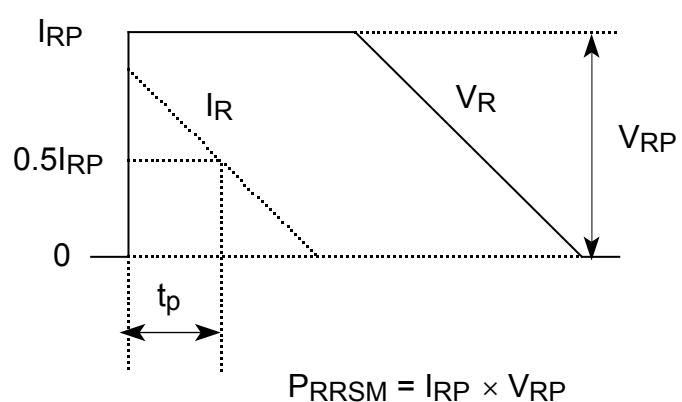
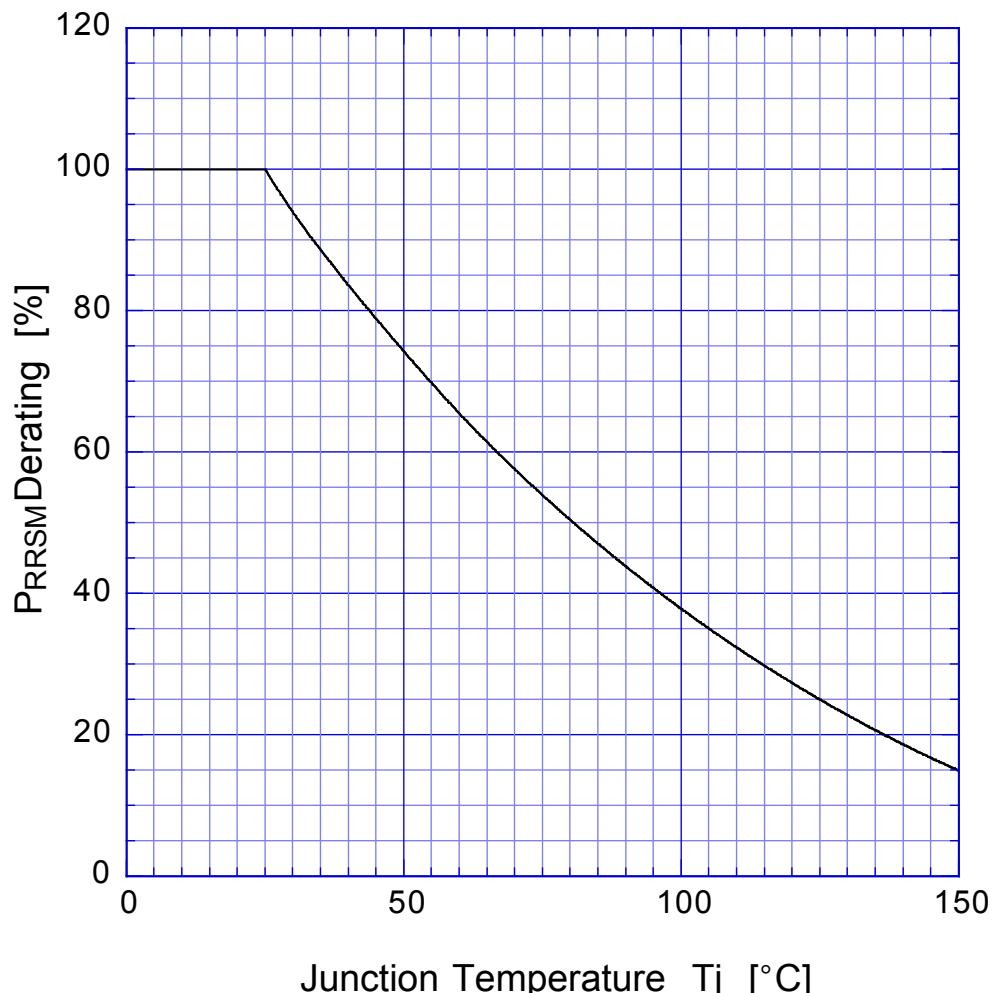


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Peak Surge Forward Capability



SBD Repetitive Surge Reverse Power Derating Curve



SBD Repetitive Surge Reverse Power Capability

