

SHINDENGEN

Schottky Rectifiers (SBD)

Single

D5S4M

40V 5A

FEATURES

- T_j 150°C
- P_{RRSM} avalanche guaranteed
- Fully Isolated Molding

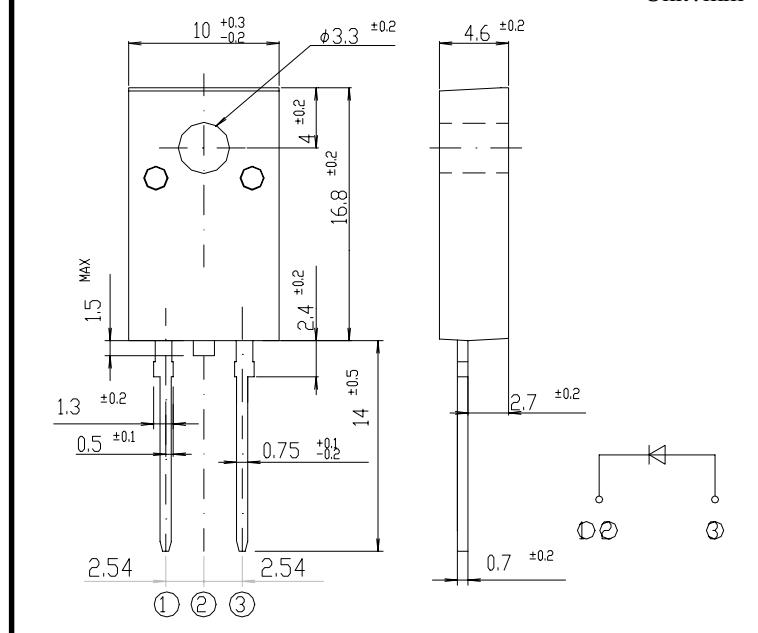
APPLICATION

- 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_c =25°C)

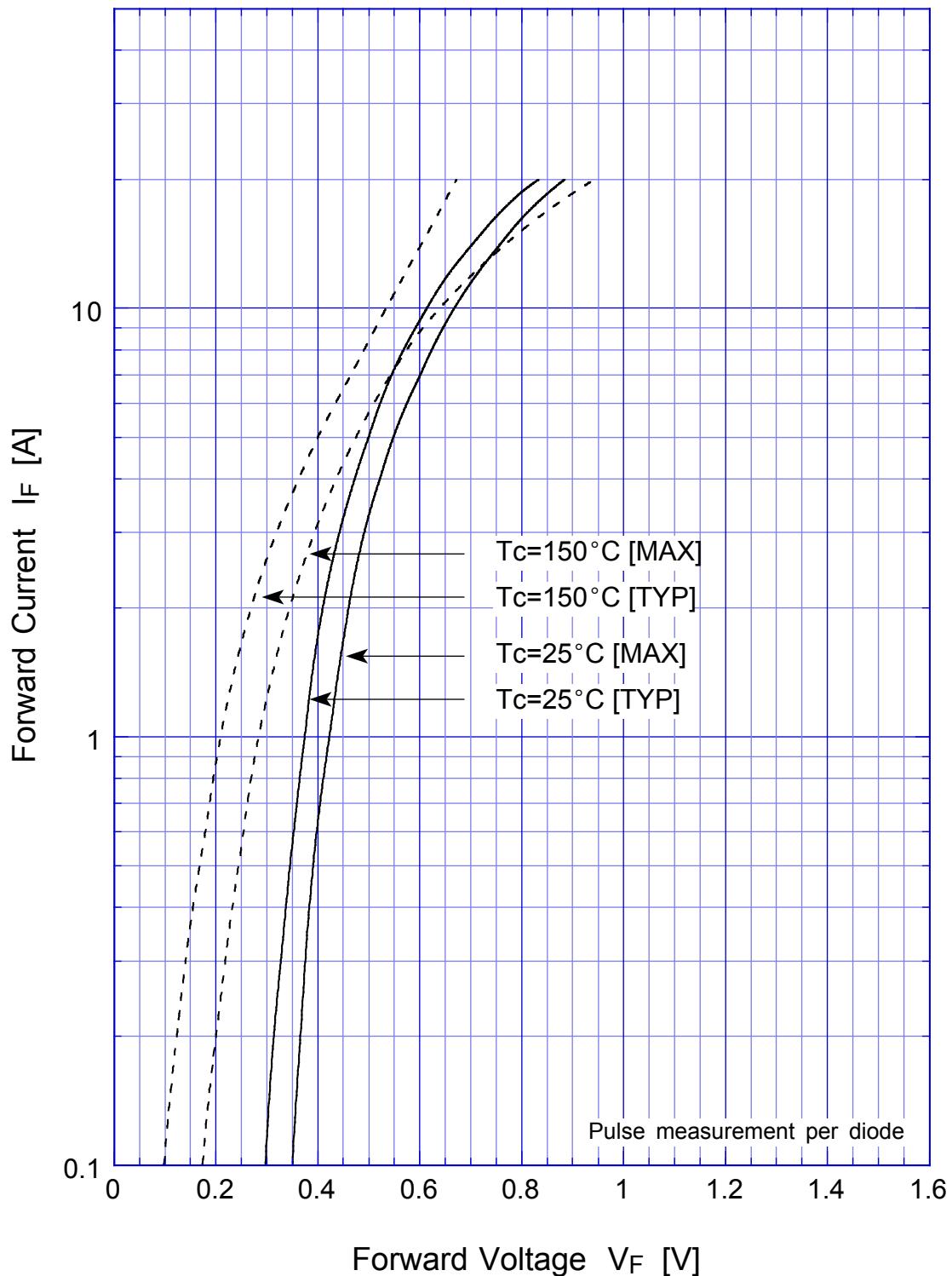
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	T_{stg}		-40~150	°C
Operating Junction Temperature	T_j		150	°C
Maximum Reverse Voltage	V_{RM}		40	V
Repetitive Peak Surge Reverse Voltage	V_{RRSM}	Pulse width 0.5ms, duty1/40	45	V
Average Rectified Forward Current	I_o	50Hz sine wave, R-load, T_c =131°C	5	A
Peak Surge Forward Current	I_{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, T_j =125°C	100	A
Repetitive Peak Surge Reverse Power	P_{RRSM}	Pulse width 10 μ s, T_j =25°C	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

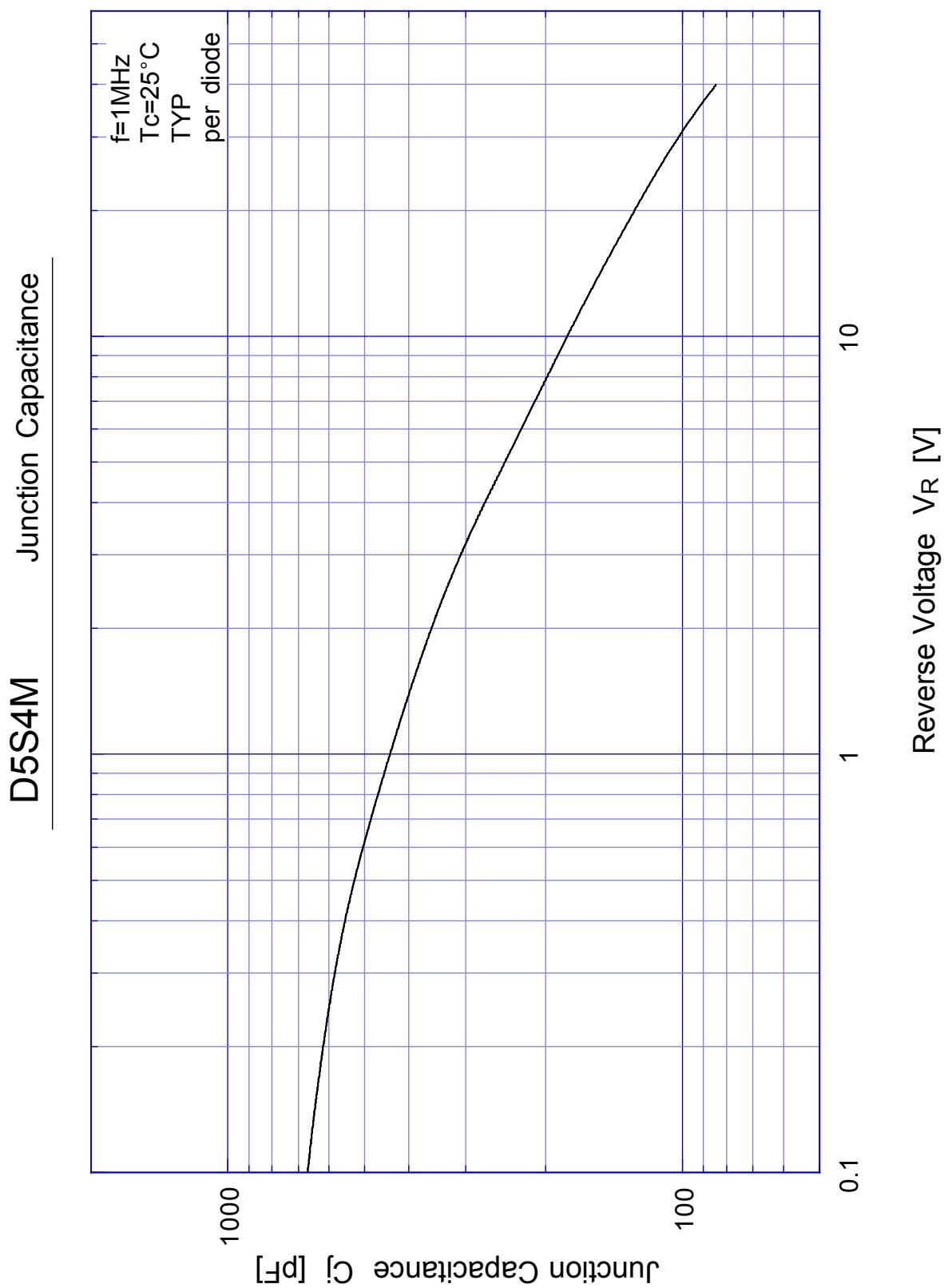
● Electrical Characteristics (If not specified T_c =25°C)

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V_F	I_F =5A, Pulse measurement	Max 0.55	V
Reverse Current	I_R	V_R =VRM, Pulse measurement	Max 3.5	mA
Junction Capacitance	C_j	f=1MHz, V_R =10V	Typ 180	pF
Thermal Resistance	θ_{jc}	junction to case	Max 4.5	°C/W
	θ_{jf}	junction to heatsink (Reference value)	Max 6.0	

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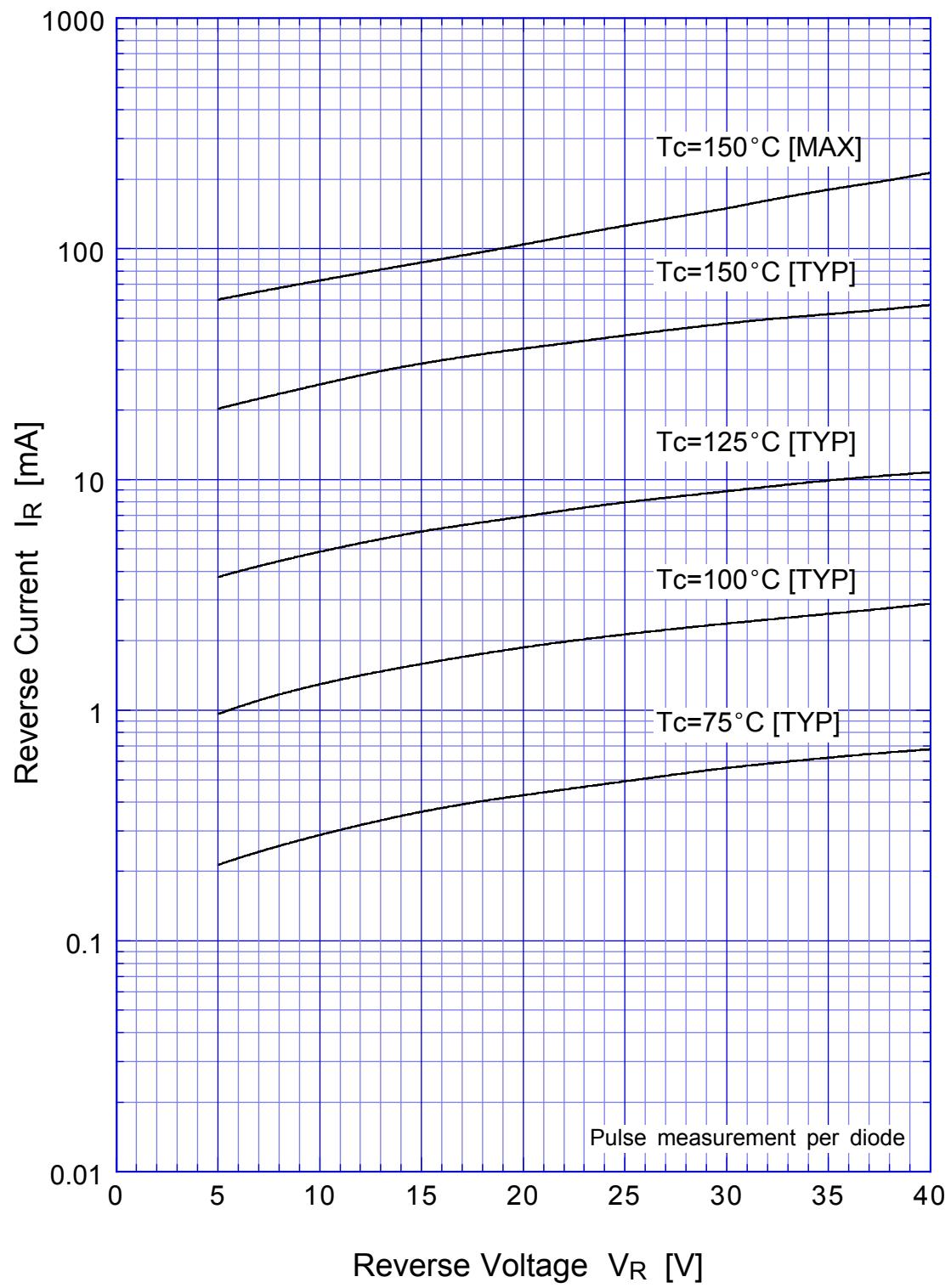
Forward Voltage

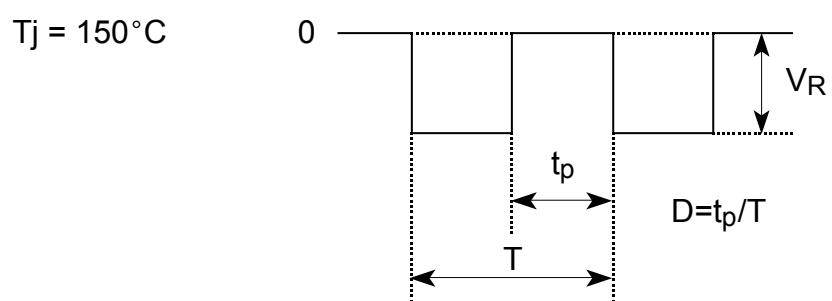
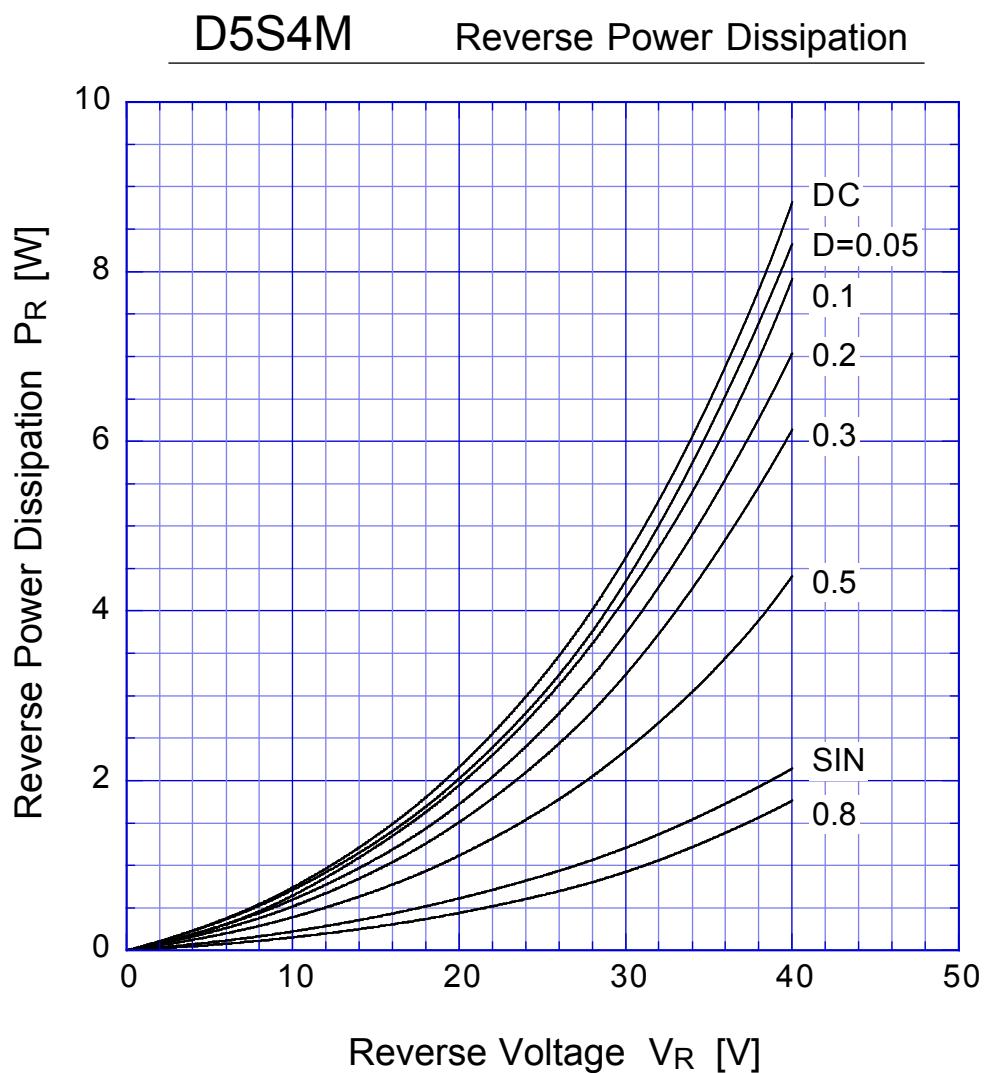


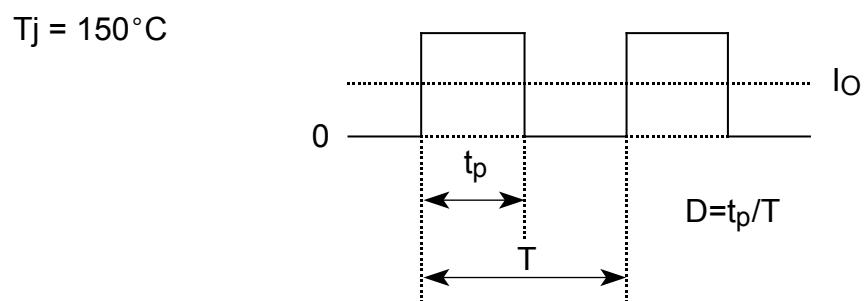
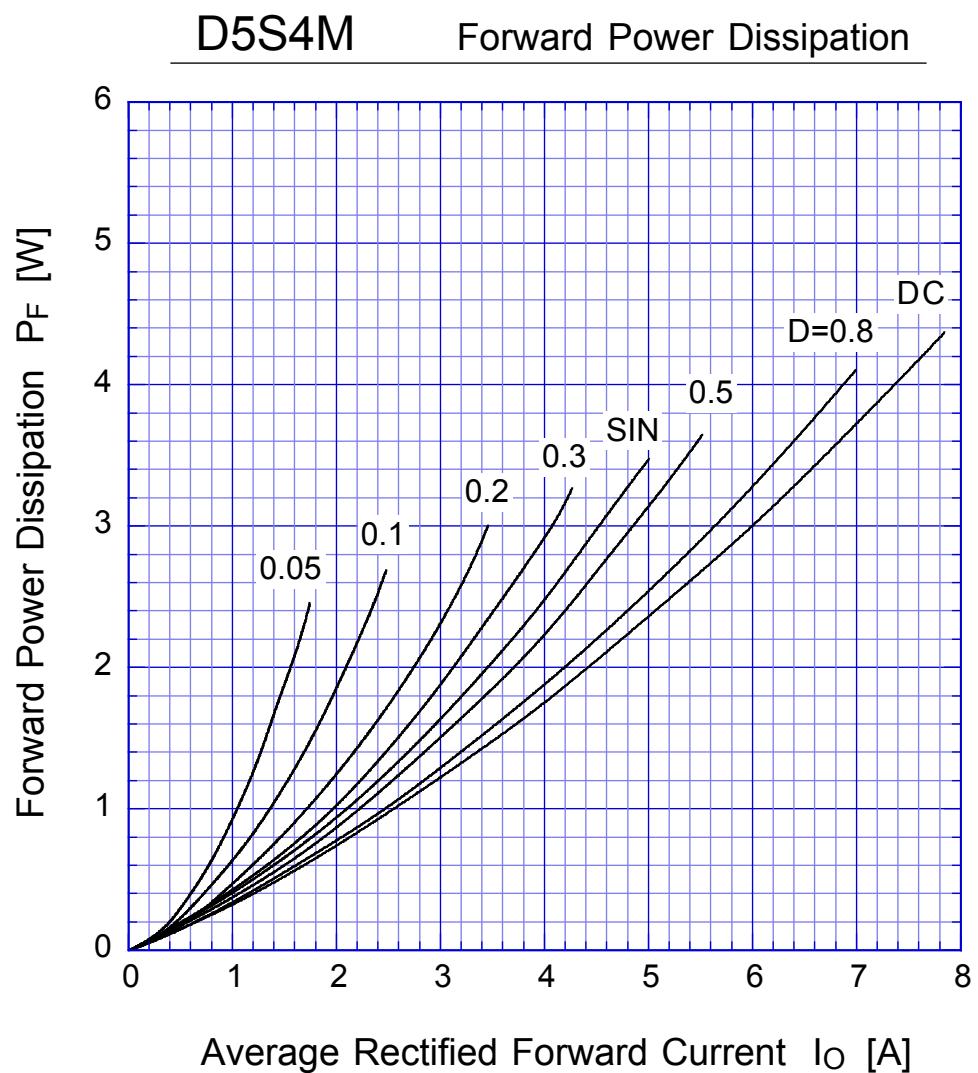


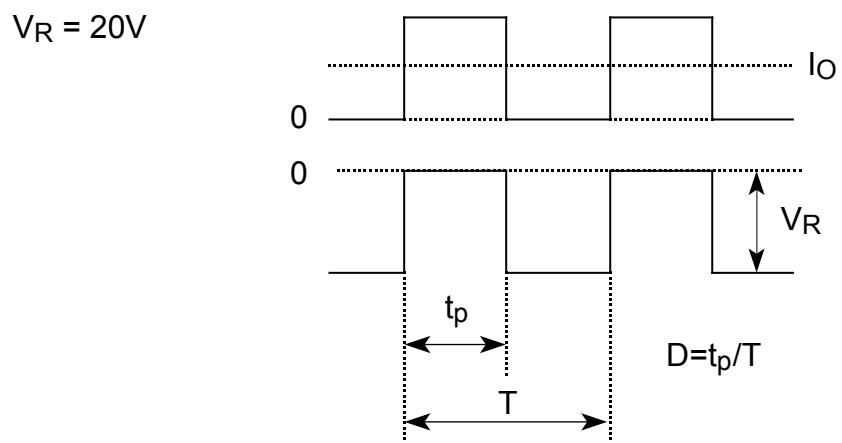
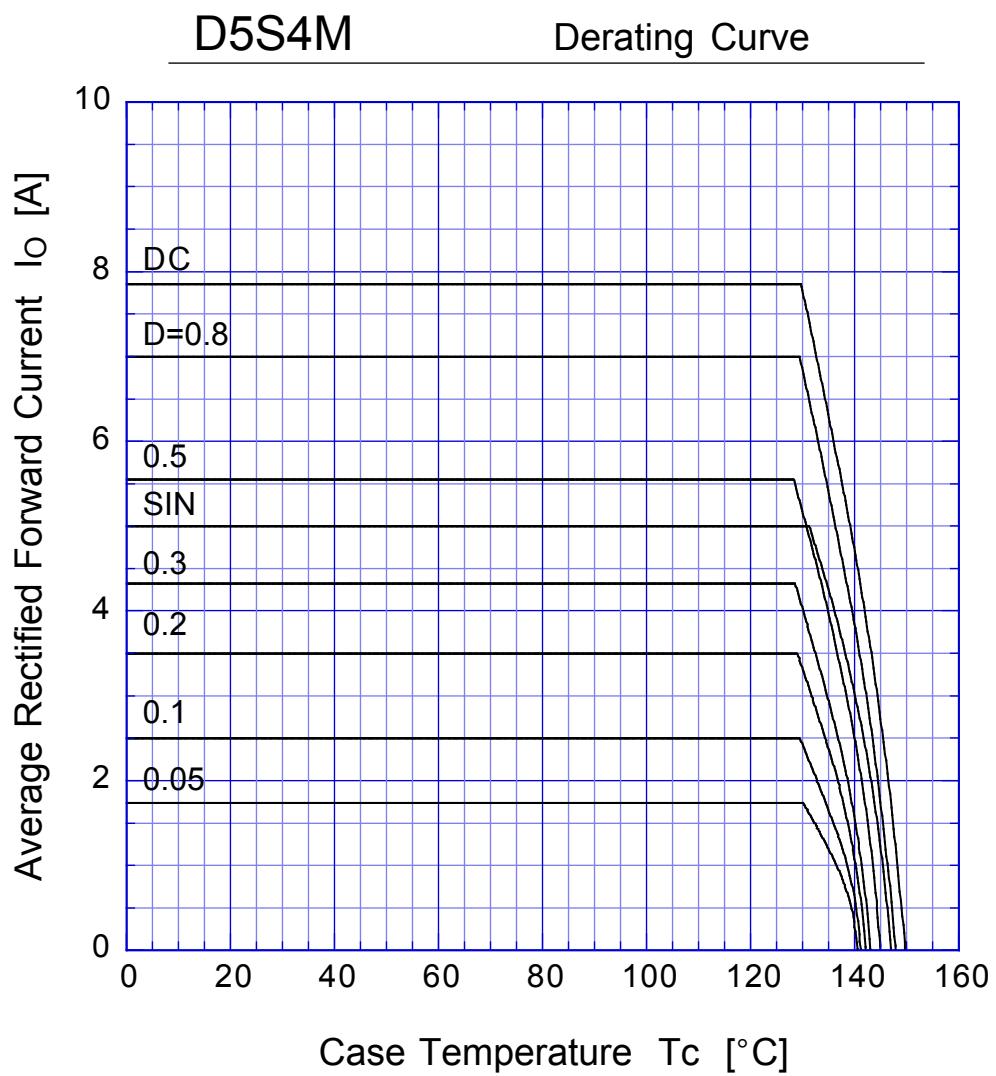
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Reverse Current



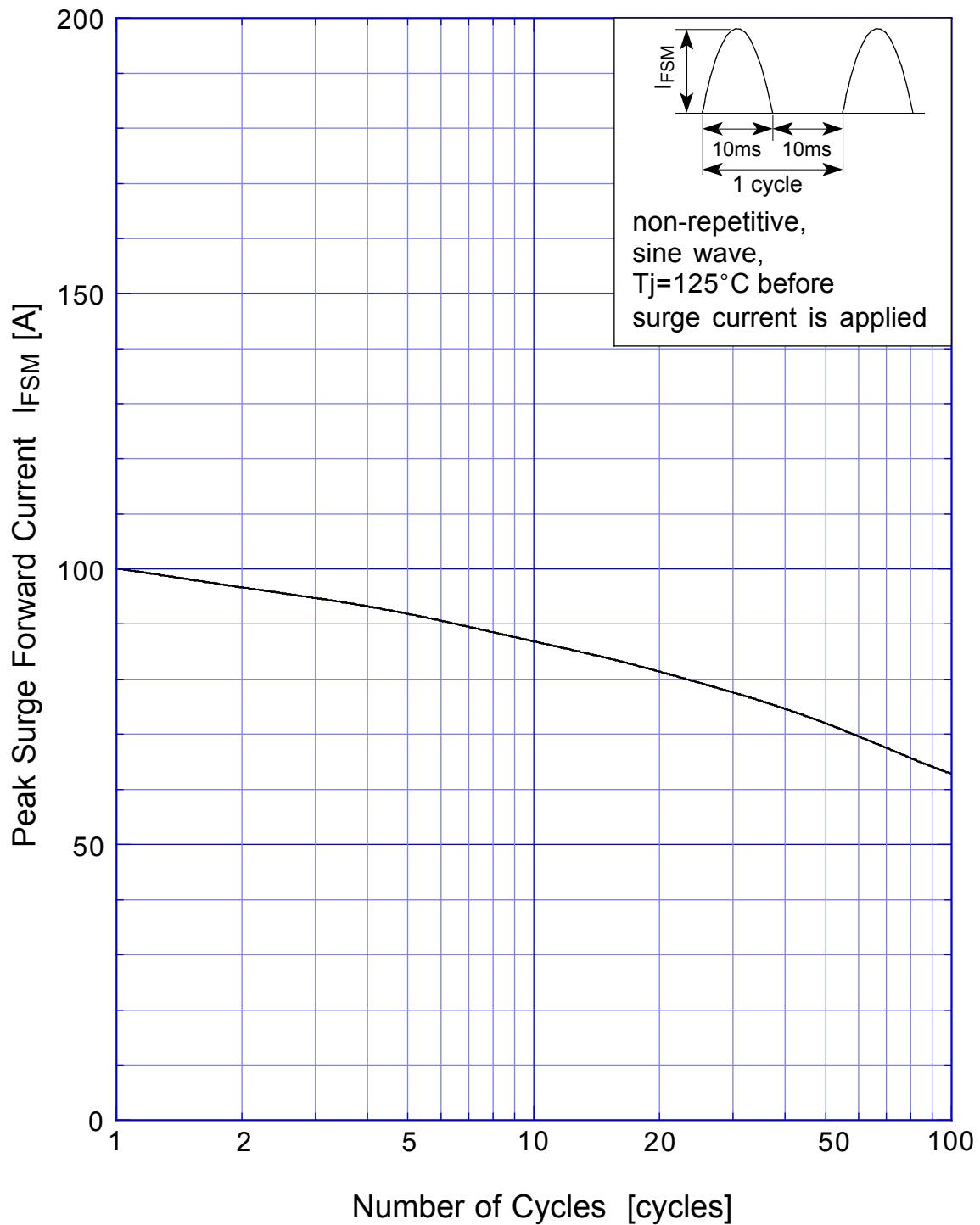




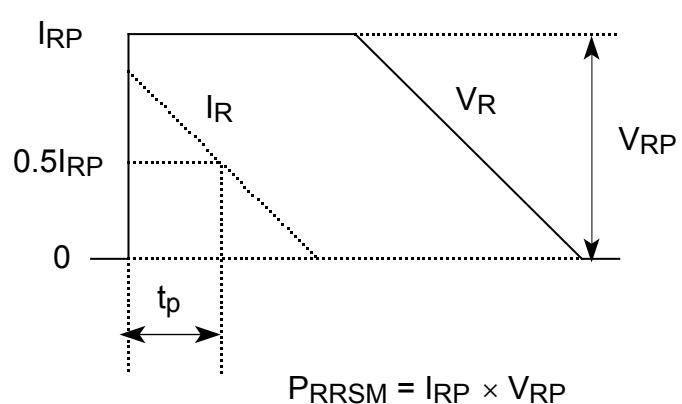
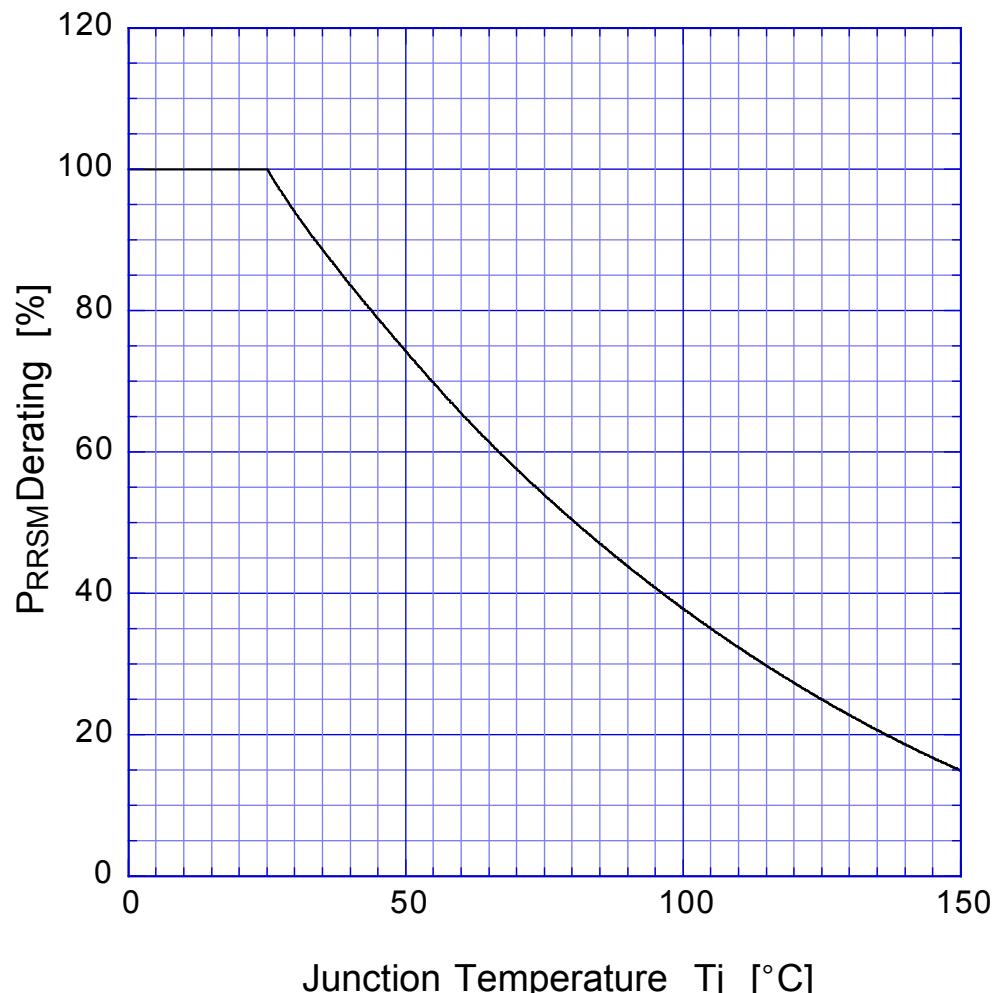


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Peak Surge Forward Capability



SBD Repetitive Surge Reverse Power Derating Curve



SBD Repetitive Surge Reverse Power Capability

