

SF5S4

40V 5A

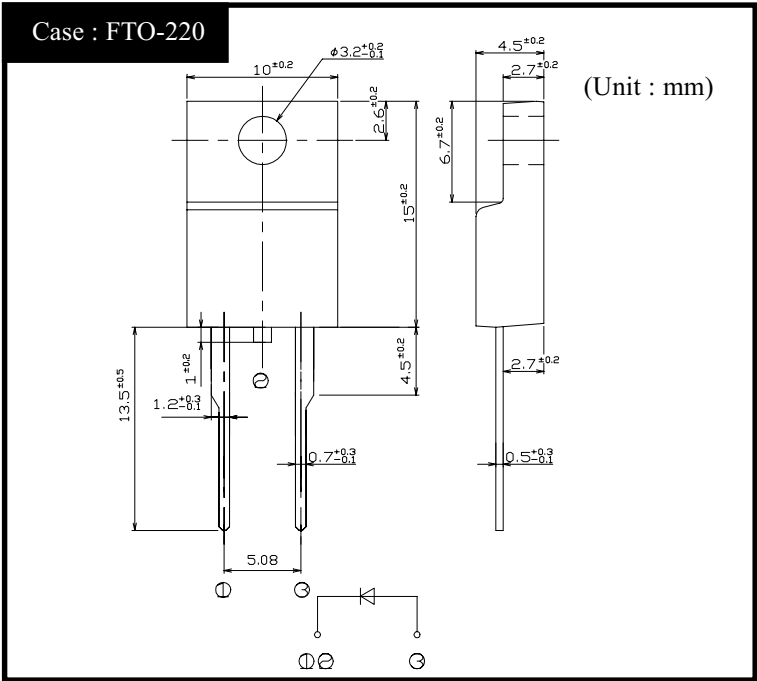
FEATURES

- Tj150°C
- PRRSM avalanche guaranteed
- Fully Isolated Molding
- Dielectric strength 2KV guaranteed

APPLICATION

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

OUTLINE DIMENSIONS



RATINGS

● Absolute Maximum Ratings (If not specified Tc =25°C)

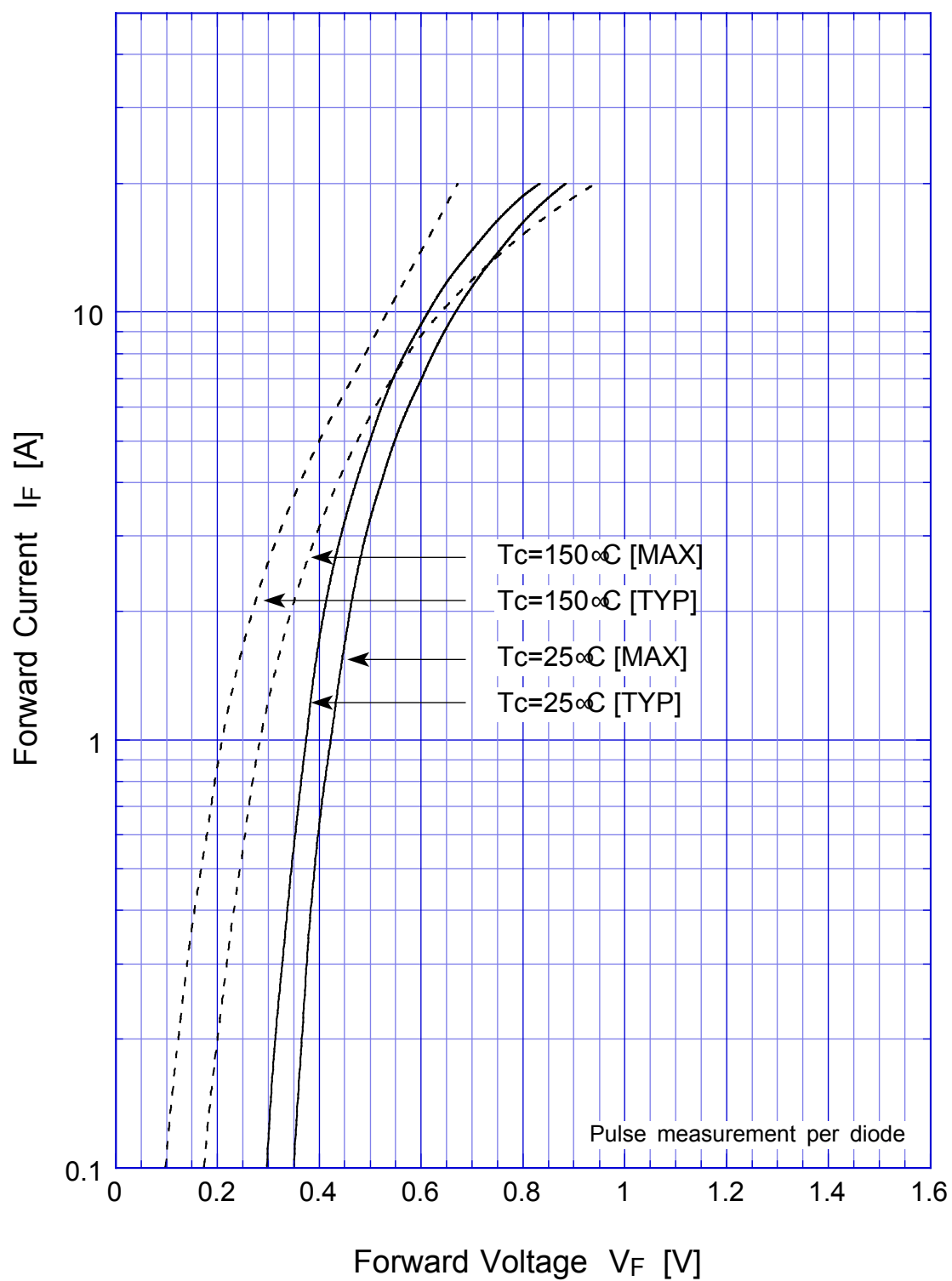
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-40~150	°C
Operating Junction Temperature	Tj		150	°C
Maximum Reverse Voltage	VRM		40	V
Repetitive Peak Surge Reverse Voltage	VRRSM	Pulse width 0.5ms, duty1/40	45	V
Average Rectified Forward Current	IO	50Hz sine wave, R-load, Tc=136°C	5	A
Peak Surge Forward Current	IFSM	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C	150	A
Repetitive Peak Surge Reverse Power	PRRSM	Pulse width 10 μ s, Tj=25°C	330	W
Dielectric Strength	Vdis	Terminals to case, AC 1 minute	2.0	kV
Mounting Torque	TOR	(Recommended torque: 0.3N·m)	0.5	N·m

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

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	VF	IF=5A, Pulse measurement	Max.0.55	V
Reverse Current	IR	VR=VRM, Pulse measurement	Max. 3.5	mA
Junction Capacitance	Cj	f=1MHz, VR=10V	Typ.180	pF
Thermal Resistance	θ jc	junction to case	Max.3.5	°C/W

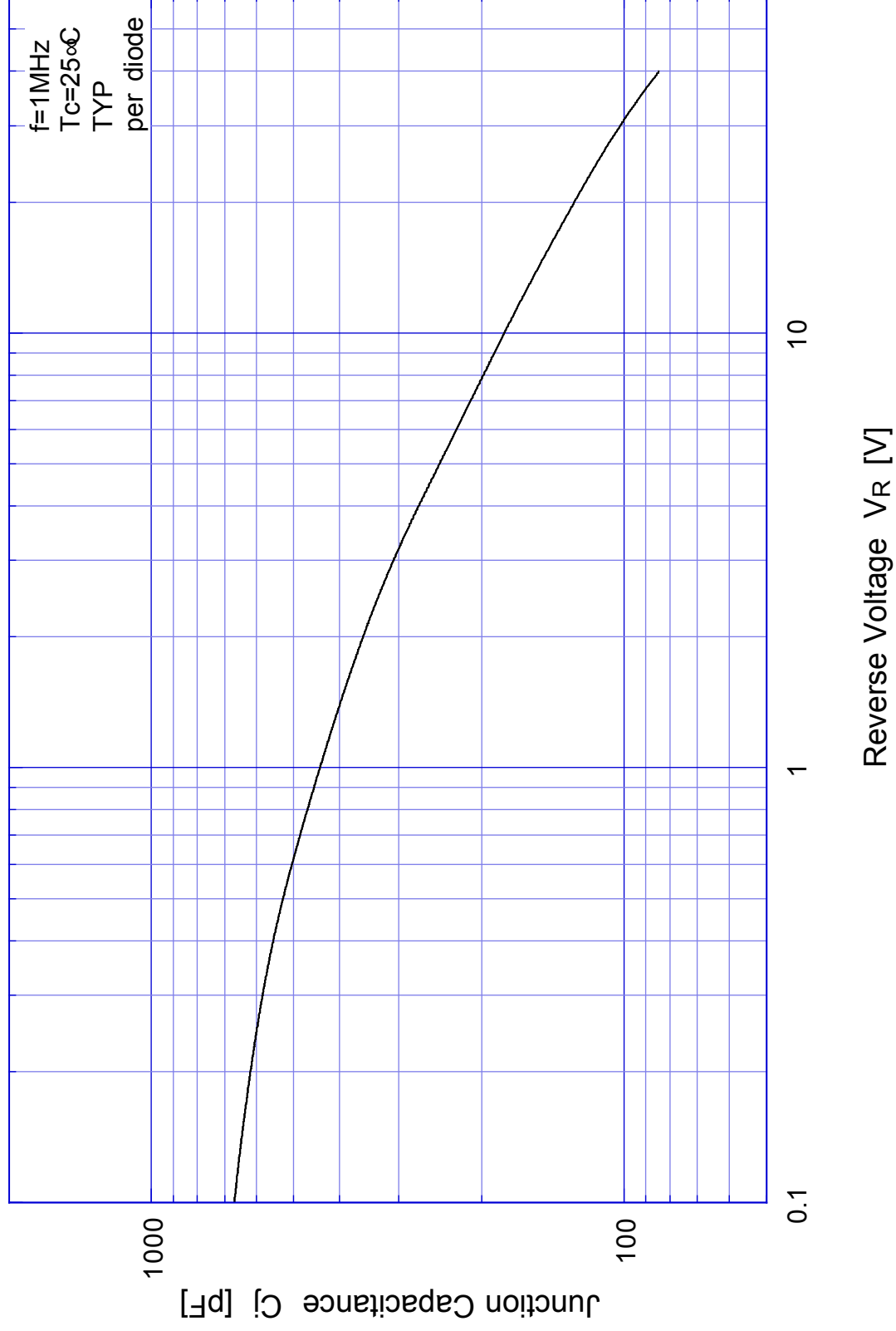
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Forward Voltage



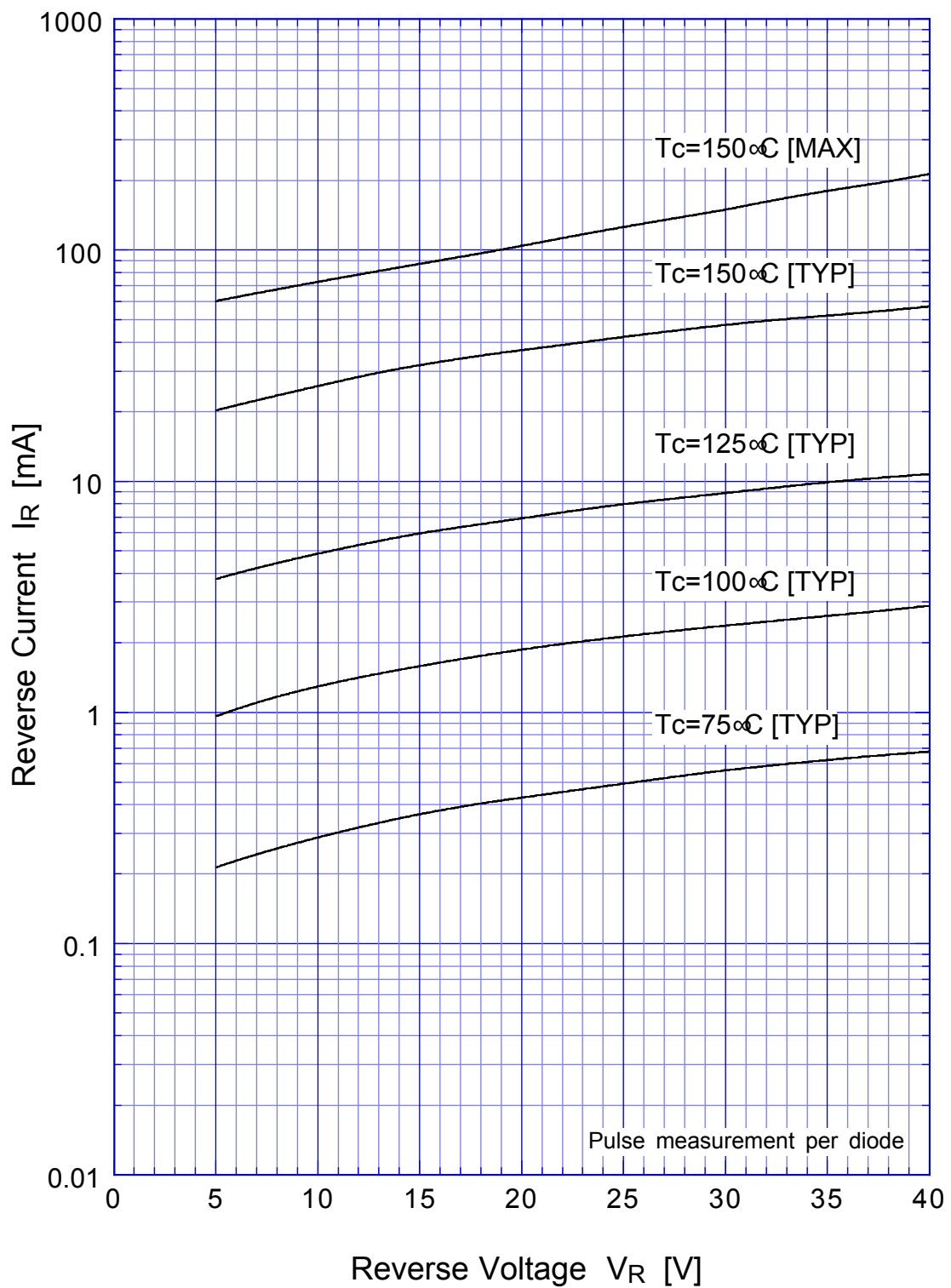
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Junction Capacitance



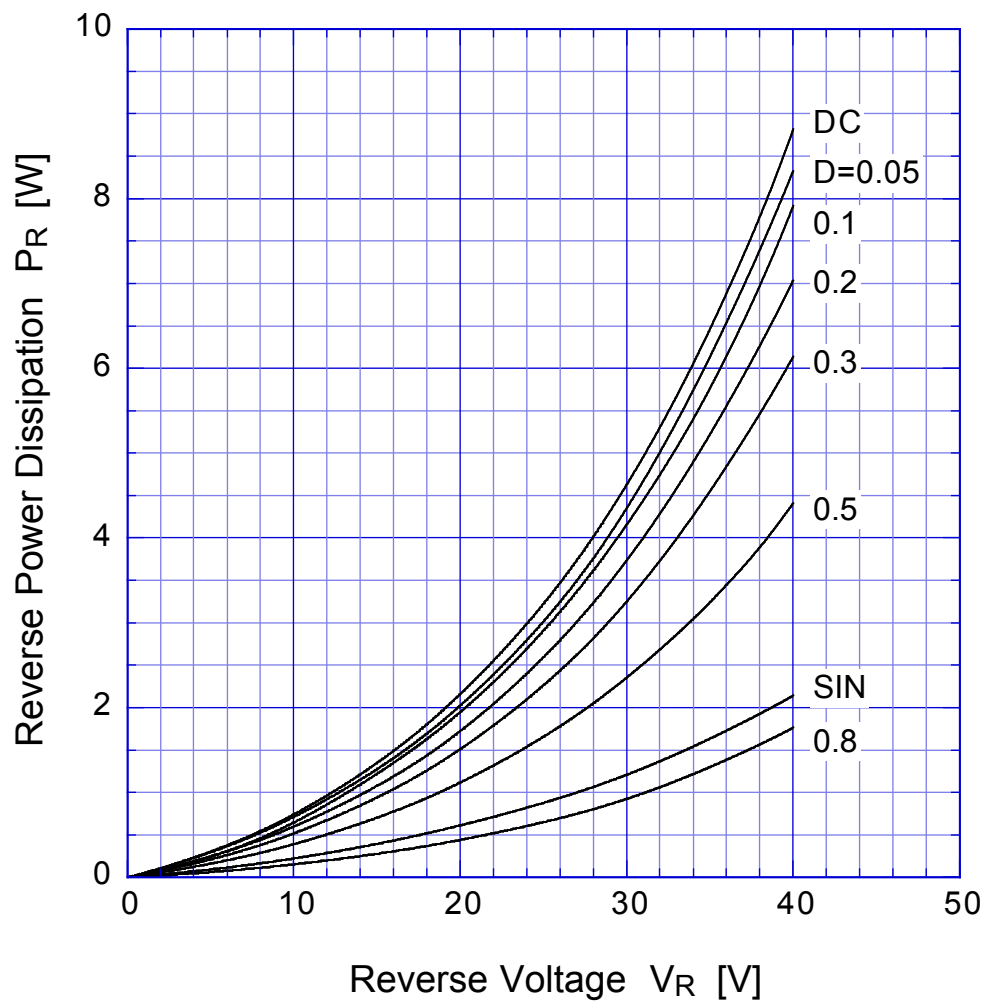
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Reverse Current

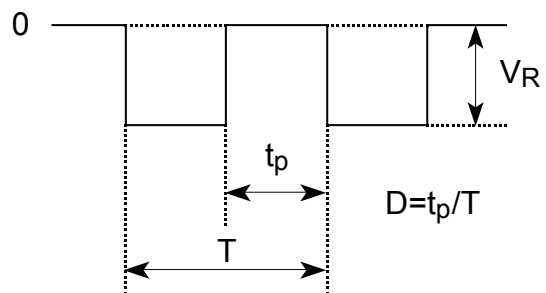


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Reverse Power Dissipation

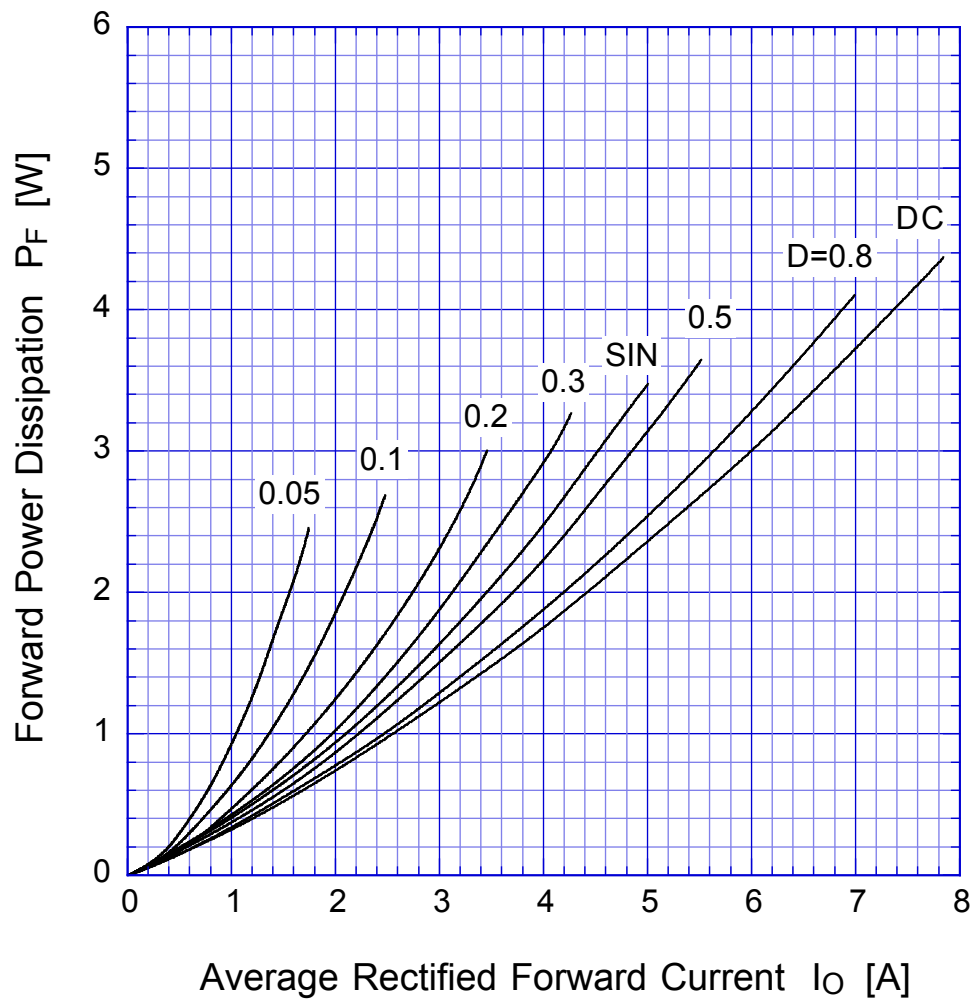


$T_j = 150^\circ\text{C}$

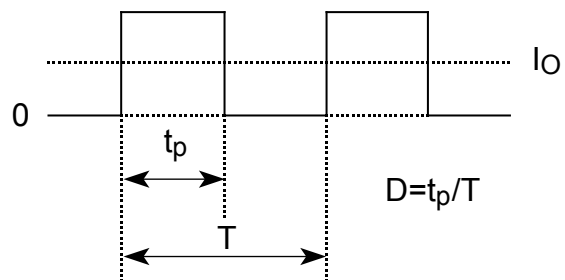


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Forward Power Dissipation

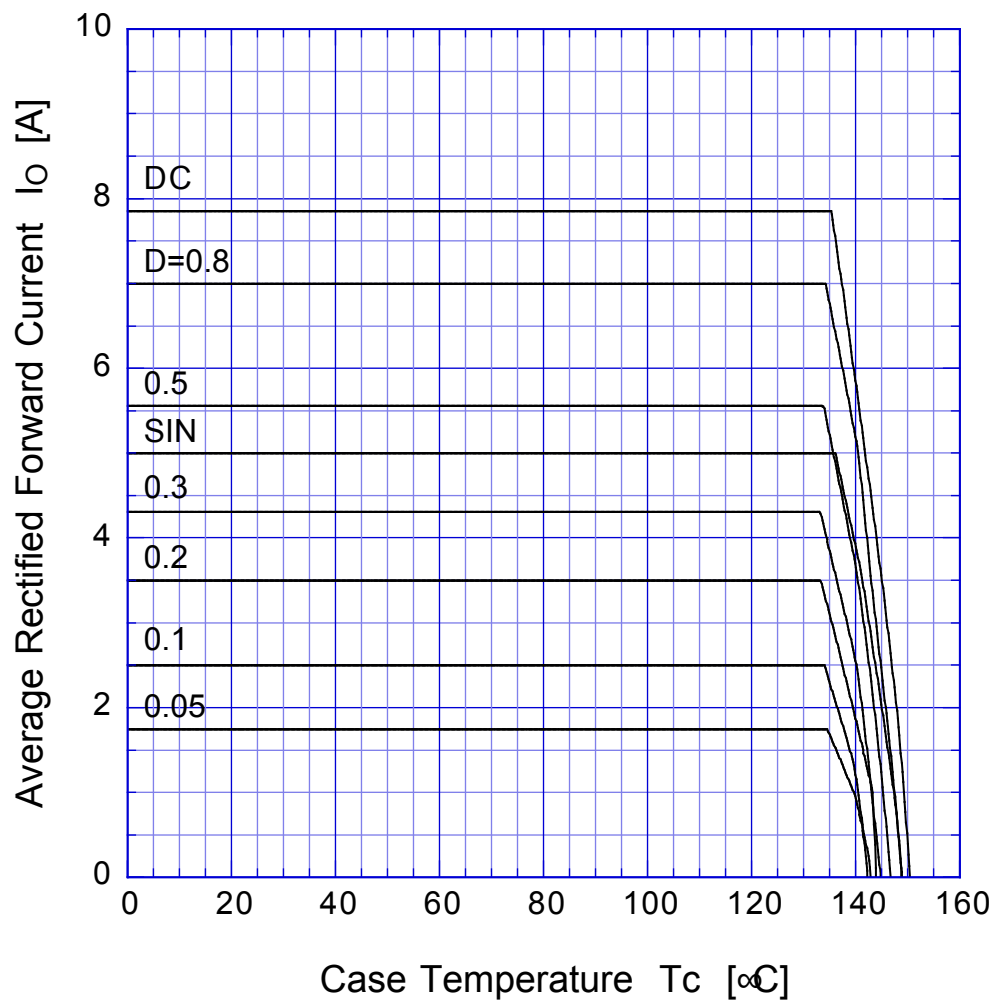


$T_j = 150^\circ\text{C}$

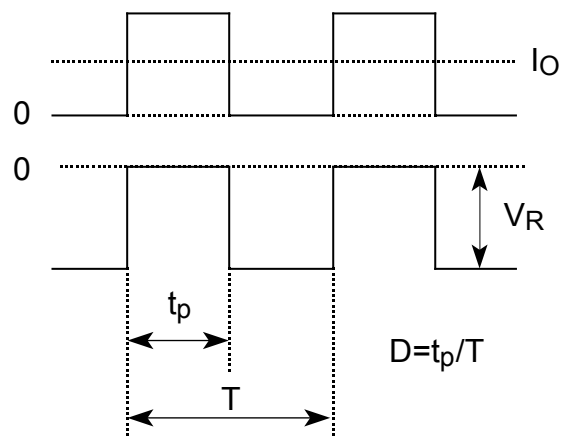


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Derating Curve

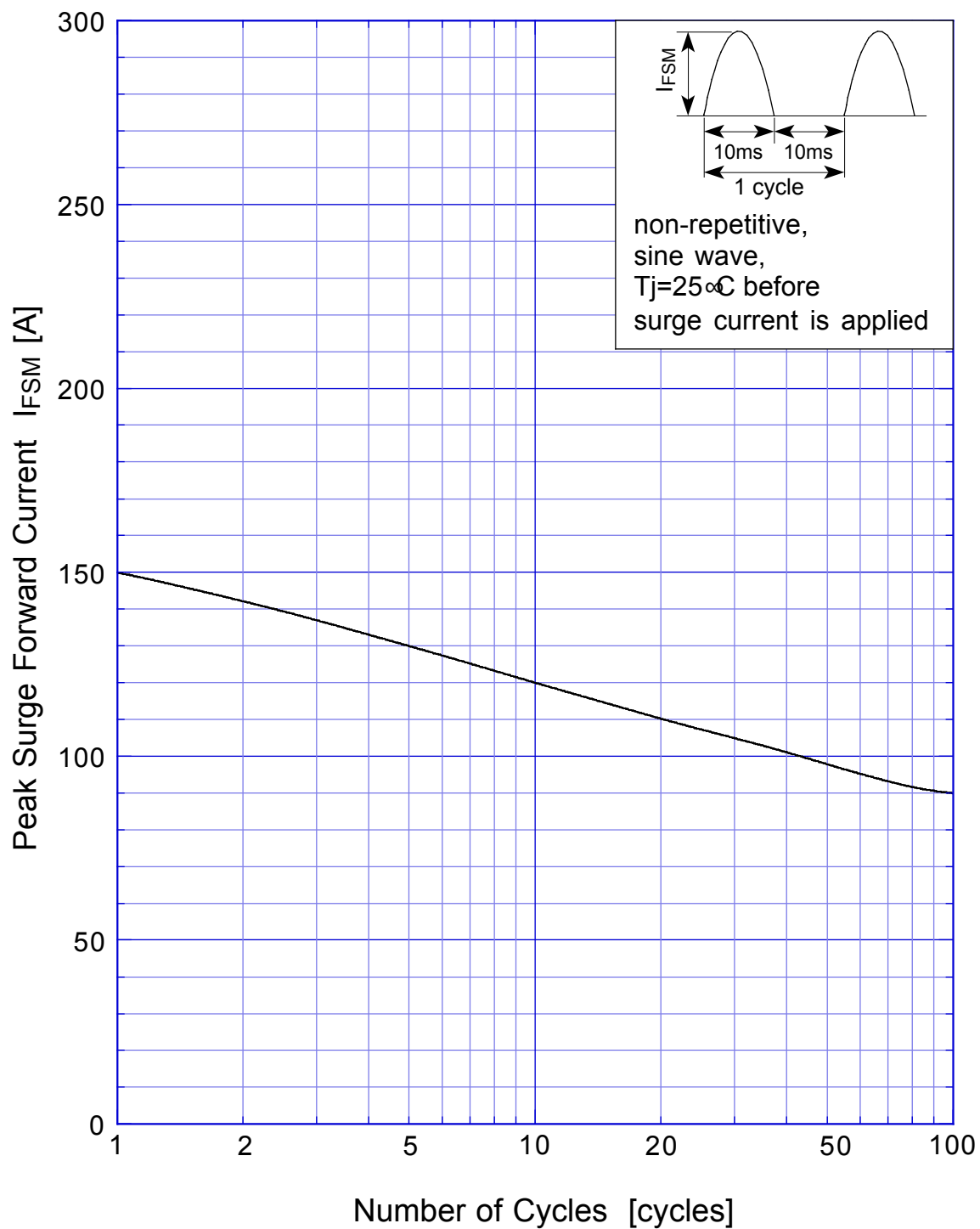


$V_R = 20V$



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Peak Surge Forward Capability



SBD Repetitive Surge Reverse Power Derating Curve

