

D2S4M

40V 2A

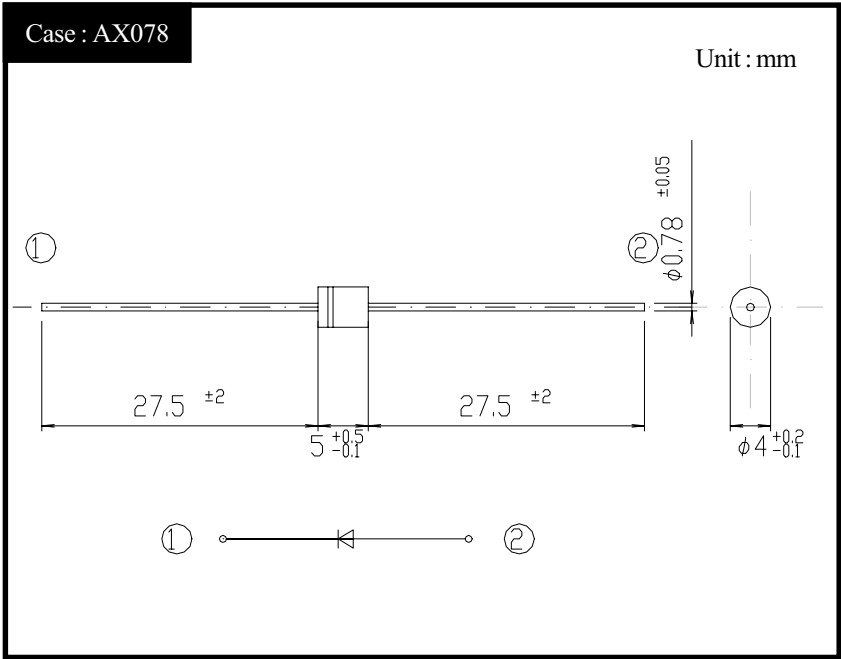
FEATURES

- Tj150°C
- PRRSM avalanche guaranteed
- 0.8 ϕ lead

APPLICATION

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

OUTLINE DIMENSIONS



RATINGS

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

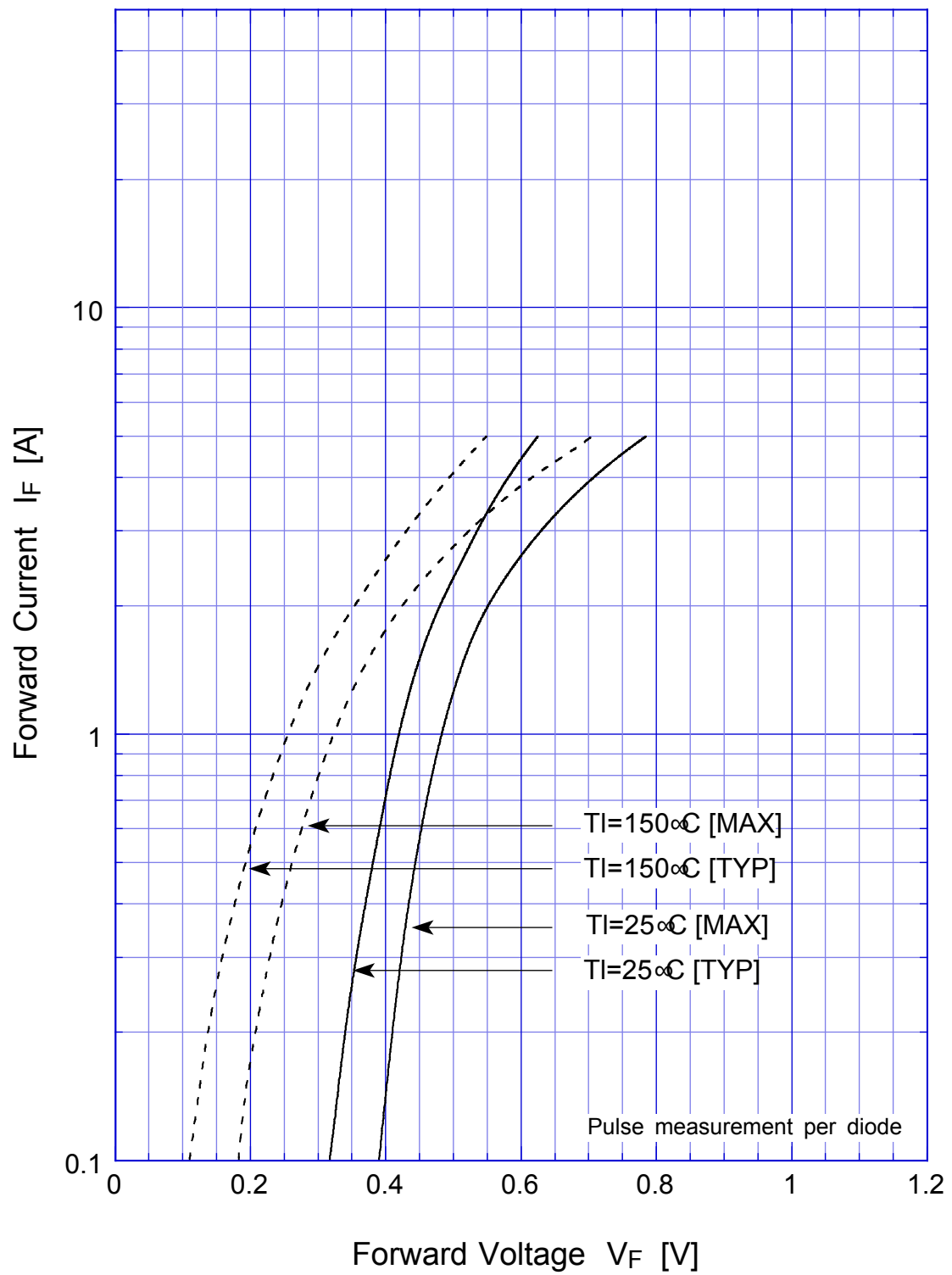
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-40~150	°C
Operating Junction Temperature	Tj		150	°C
Maximum Reverse Voltage	VRM		40	V
Repetitive Peak Surge Reverse Voltage	VRISM	Pulse width 0.5ms, duty 1/40	45	V
Average Rectified Forward Current	IO	50Hz sine wave, R-load Ta=36°C	1.5	A
		50Hz sine wave, R-load Tl=122°C	2	
Peak Surge Forward Current	IFSM	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C	60	A
Repetitive Peak Surge Reverse Power	PRISM	Pulse width 10 μ s, Tj=25°C	160	W

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

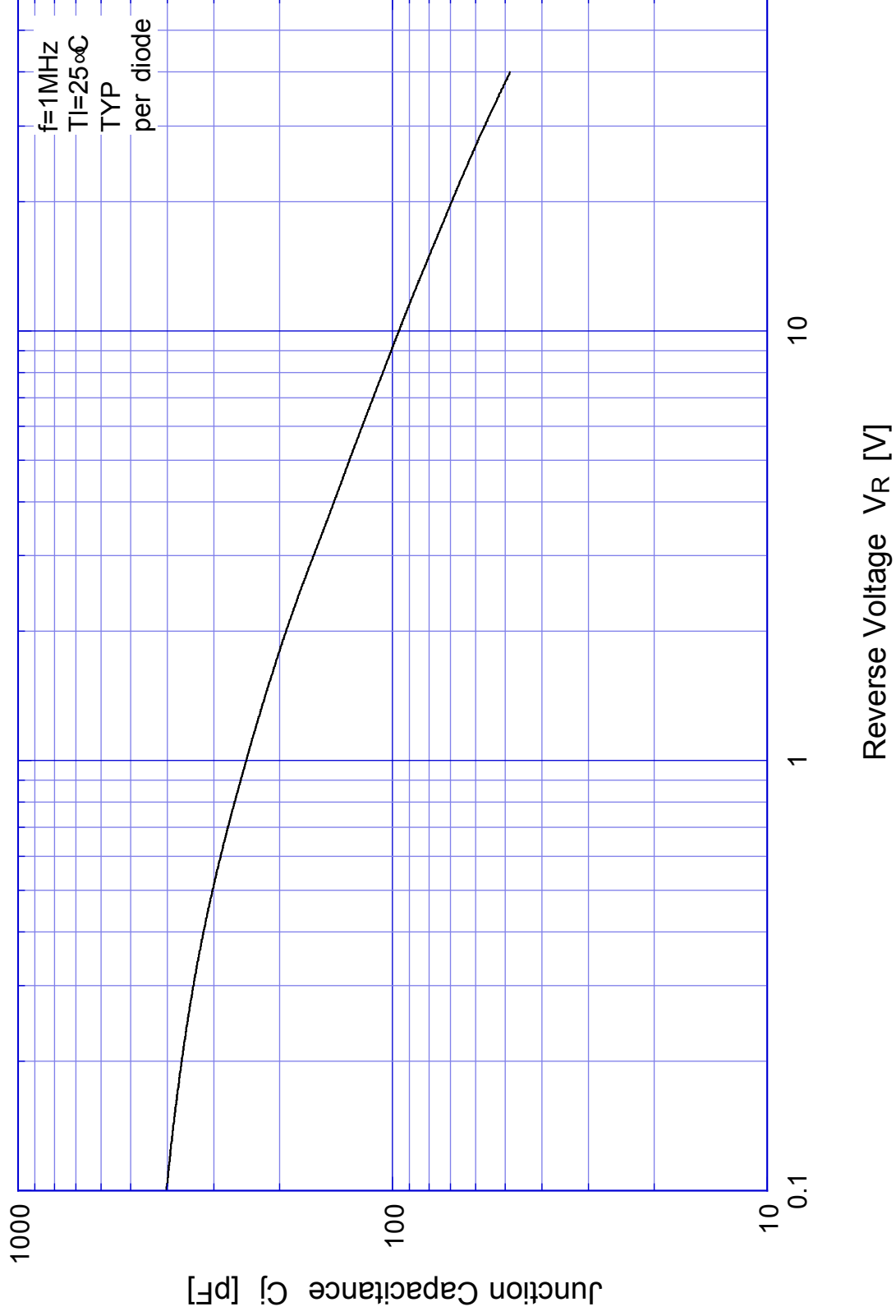
Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	VF	IF=2A, Pulse measurement	Max.0.55	V
Reverse Current	IR	VR=VRM, Pulse measurement	Max.2	mA
Junction Capacitance	Cj	f=1MHz, VR=10V	Typ.95	pF
Thermal Resistance	θjl	junction to lead	Max.17	°C/W
	θja	junction to ambient	Max.105	

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Forward Voltage

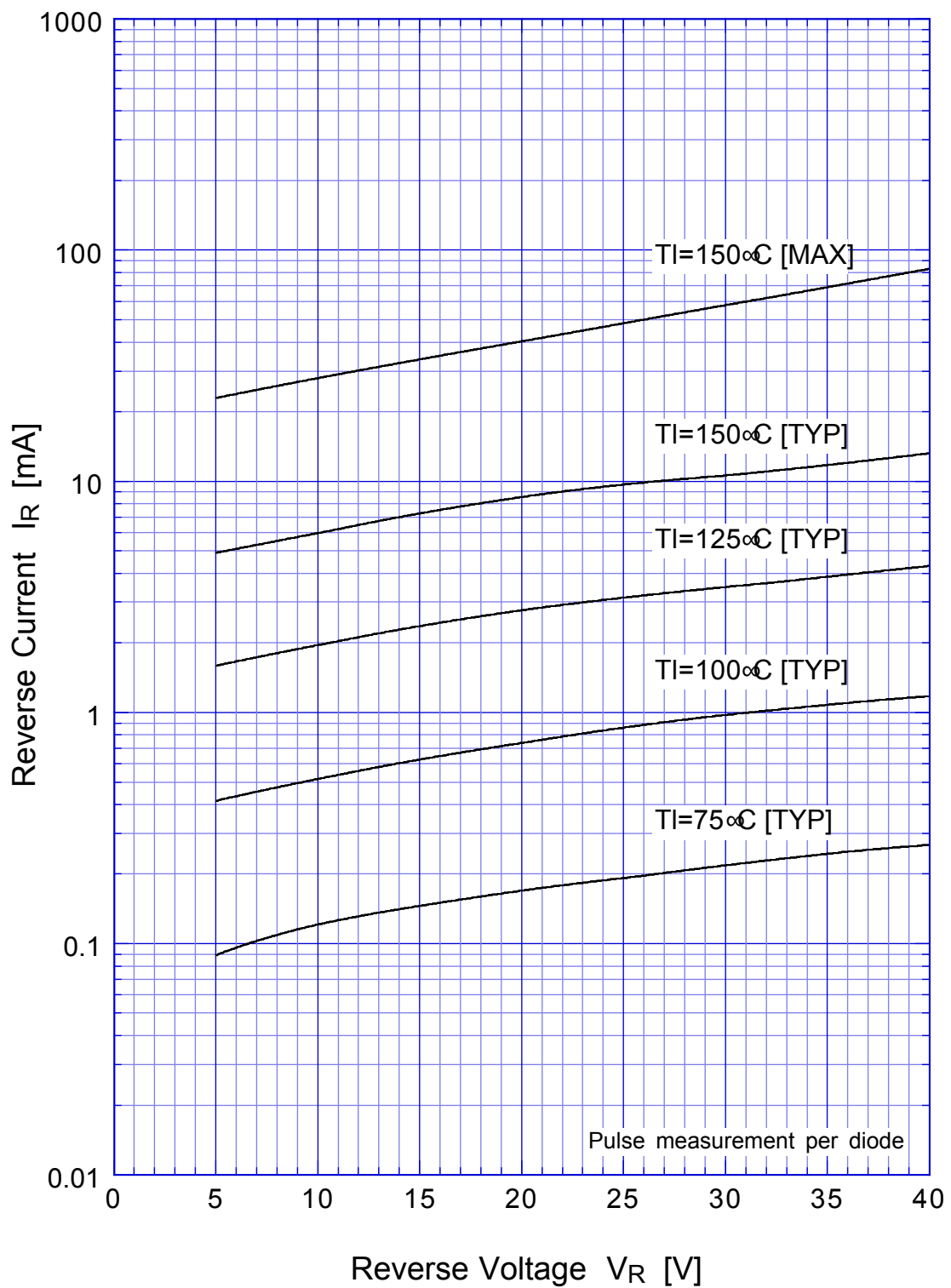


D2S4M Junction Capacitance



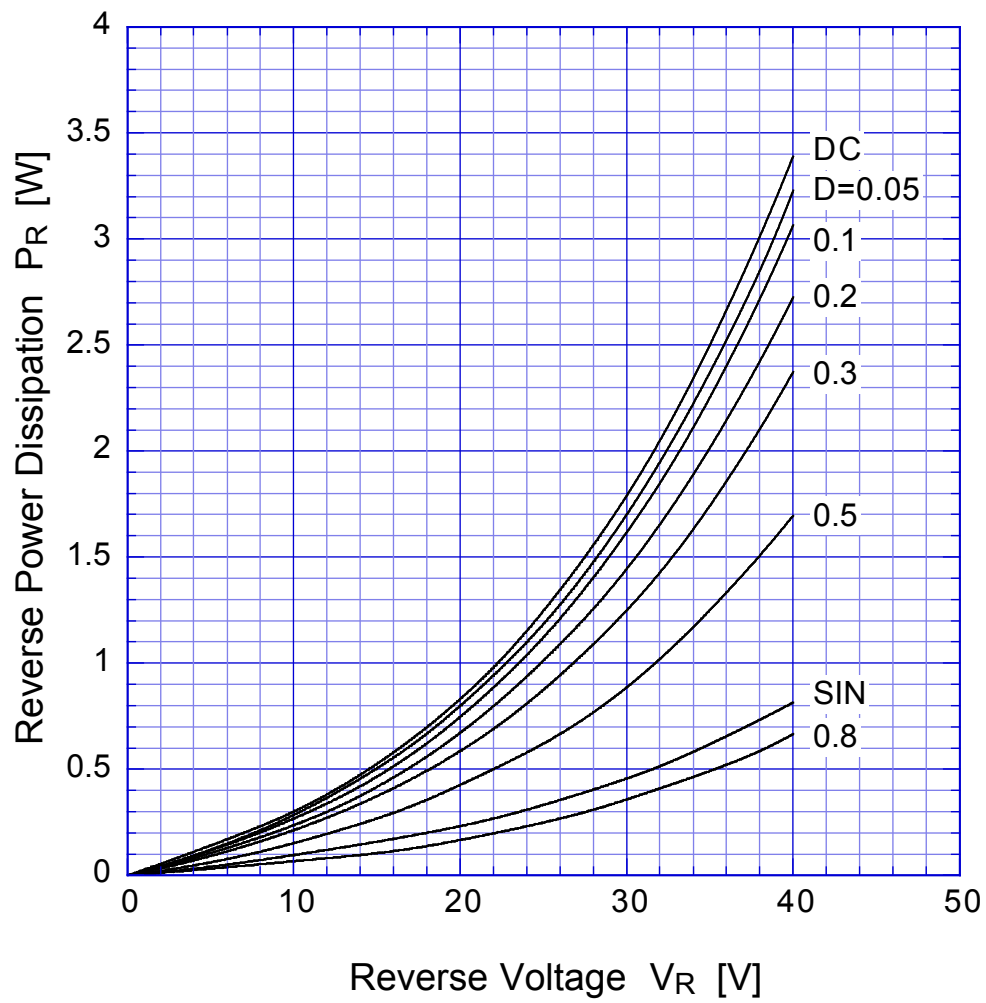
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Reverse Current

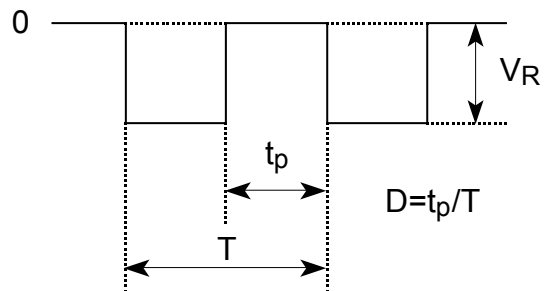


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Reverse Power Dissipation

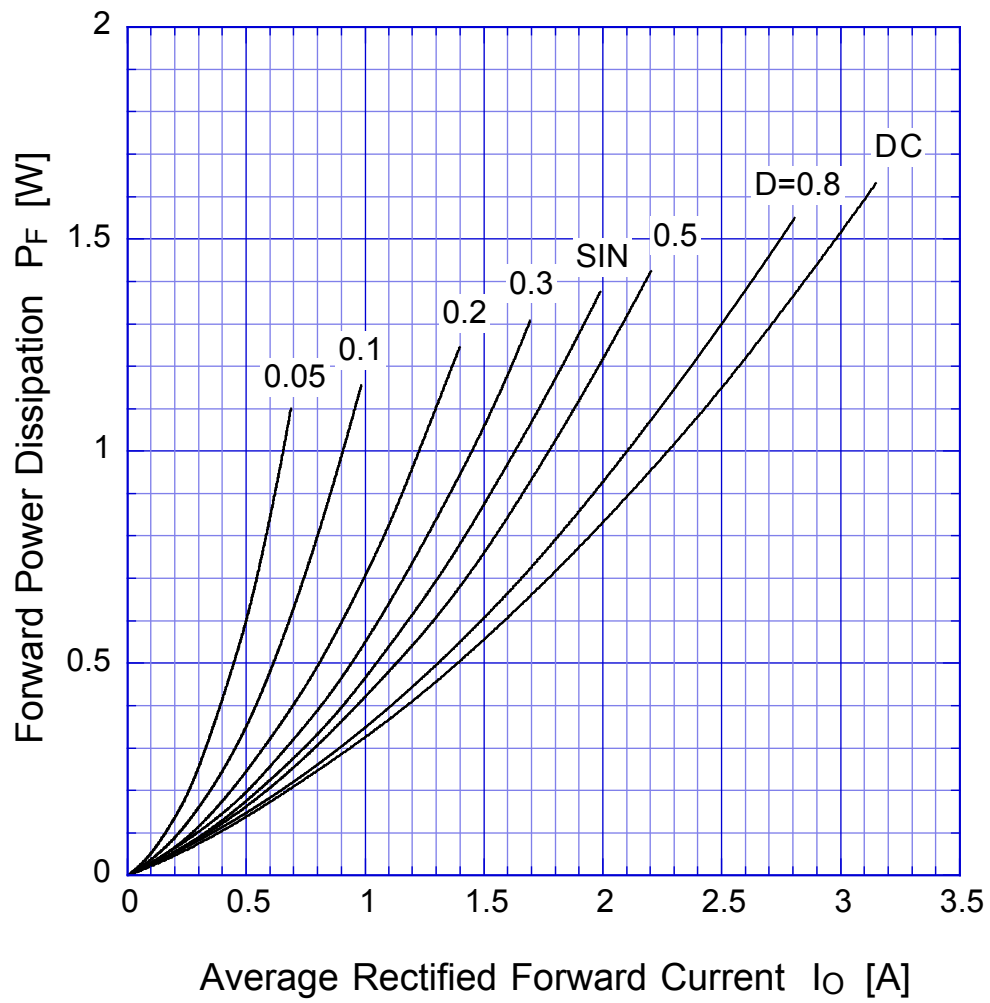


$T_j = 150^\circ\text{C}$

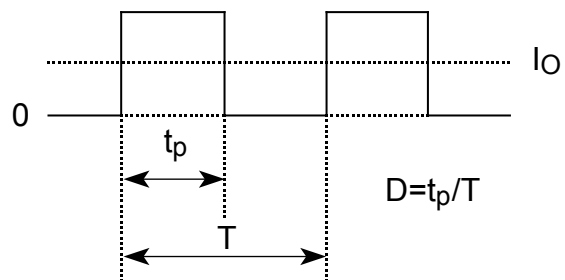


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Forward Power Dissipation

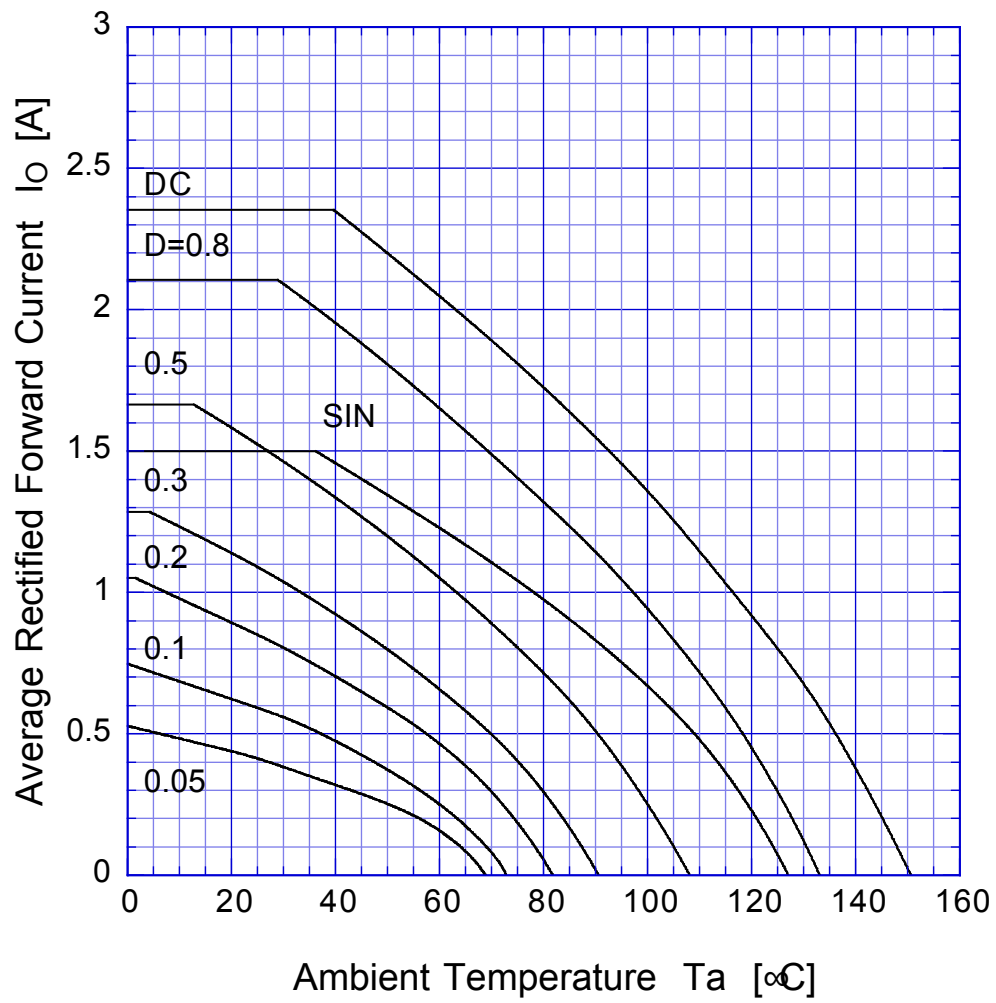


$T_j = 150^\circ\text{C}$

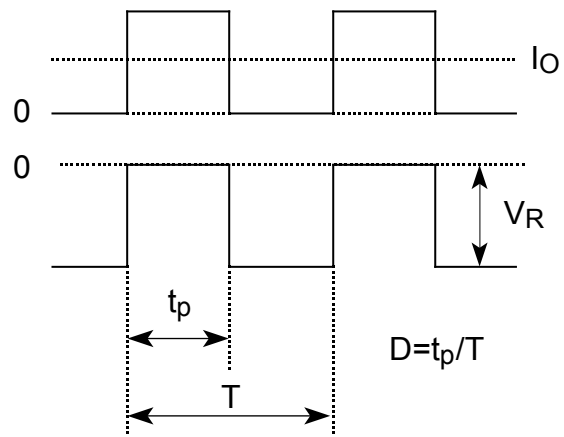


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Derating Curve

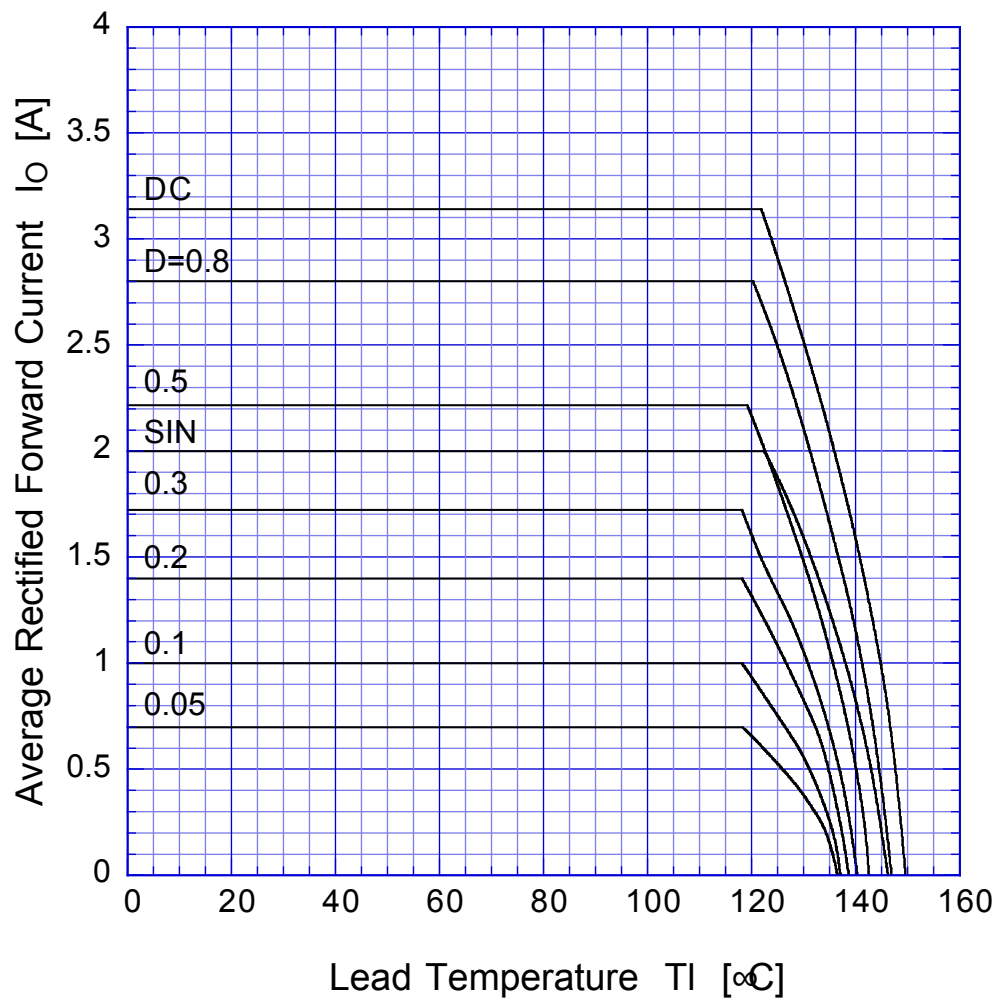


$V_R = 20V$

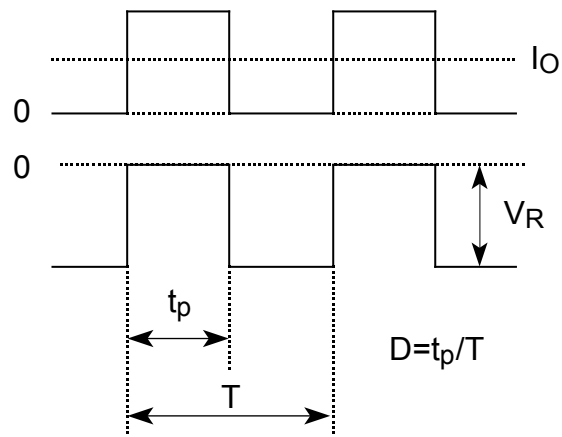


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Derating Curve

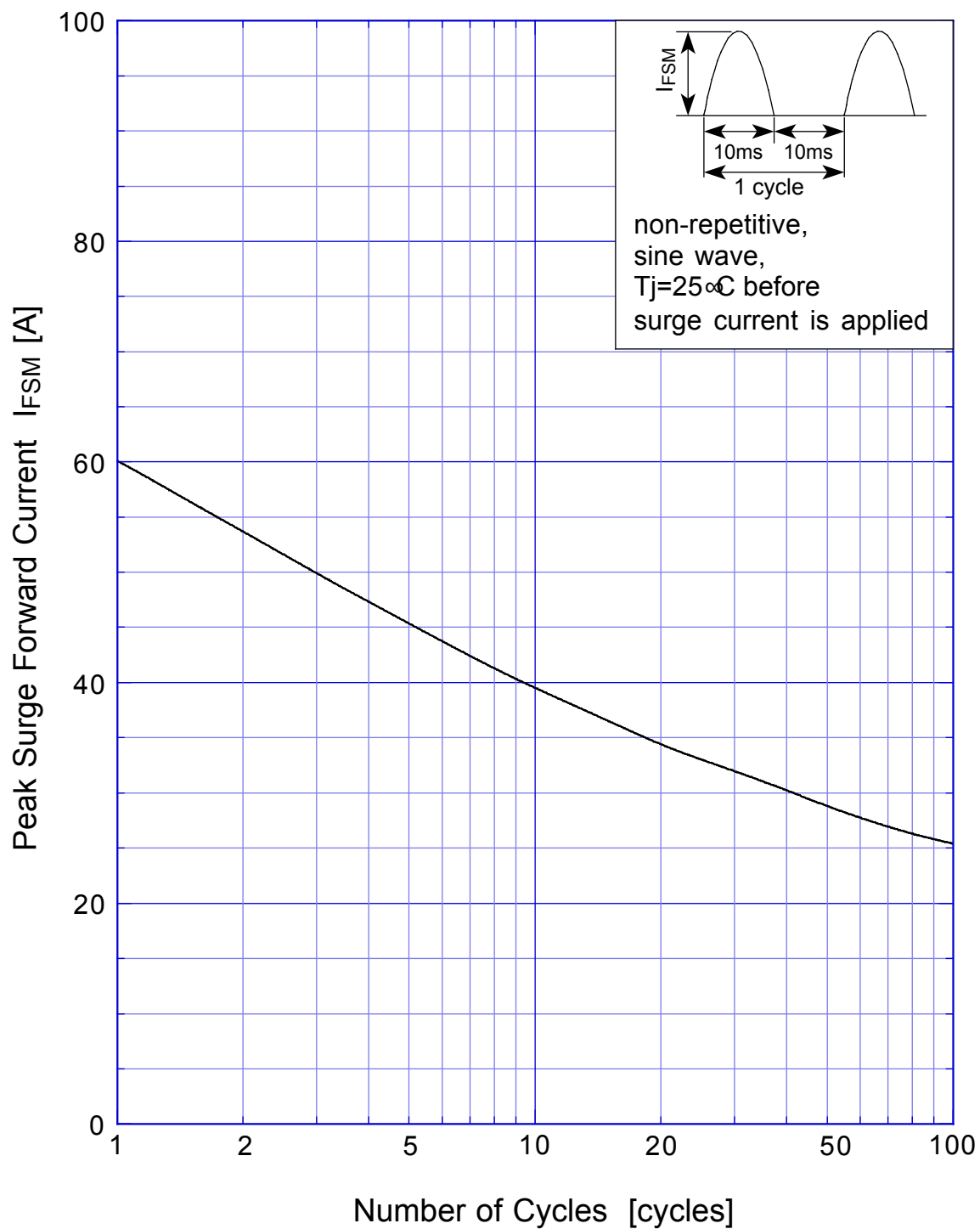


$V_R = 20V$



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Peak Surge Forward Capability



SBD Repetitive Surge Reverse Power Derating Curve

