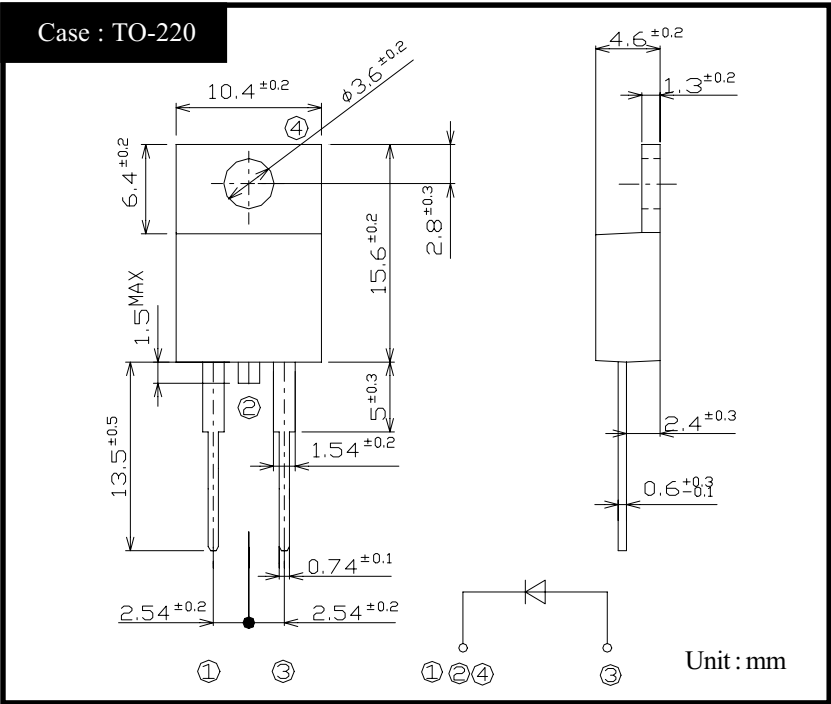


S5S4M

40V 5A

OUTLINE DIMENSIONS



RATINGS

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

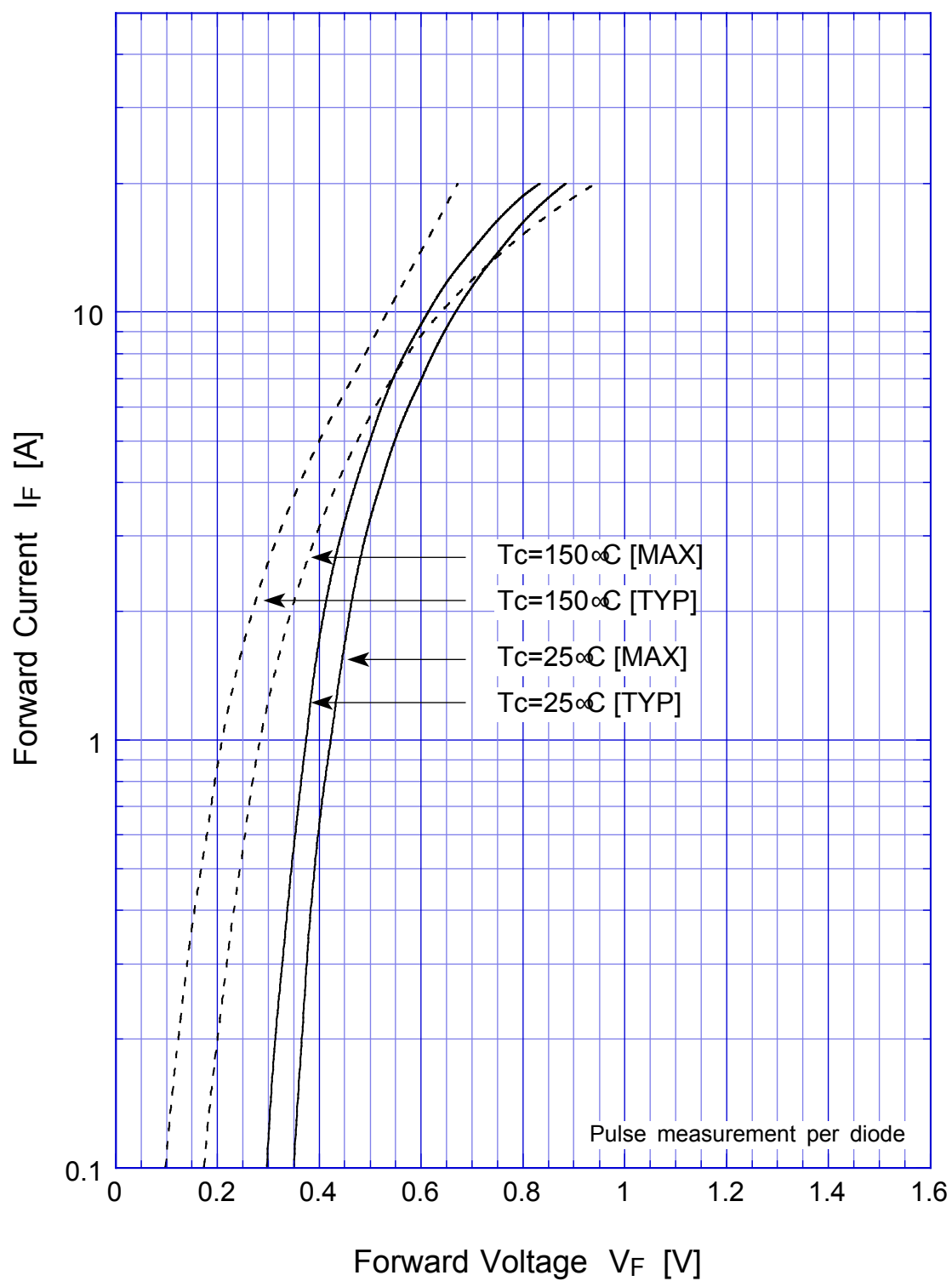
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-40~150	°C
Operating Junction Temperature	Tj		150	°C
Maximum Reverse Voltage	VRM		40	V
Repetitive Peak Surge Reverse Voltage	VRRSM	Pulse width 0.5ms, duty 1/40	45	V
Average Rectified Forward Current	IO	50Hz sine wave, R-load Tc=138°C	5	A
Peak Surge Forward Current	IFSM	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=125°C	100	A
Repetitive Peak Surge Reverse Power	PRRSM	Pulse width 10 μ s, Tj=25°C	330	W
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	°C/W

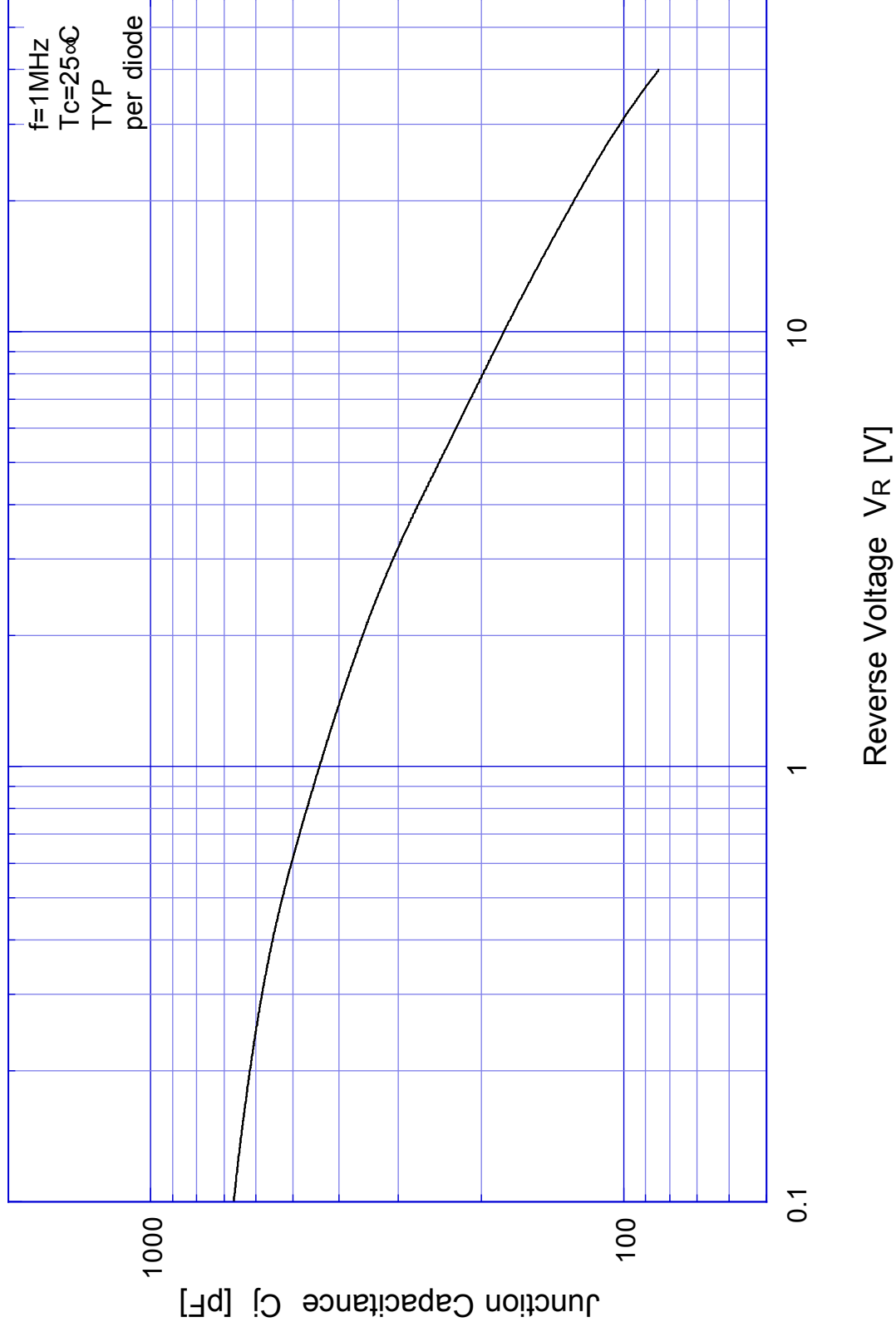
S5S4M

Forward Voltage



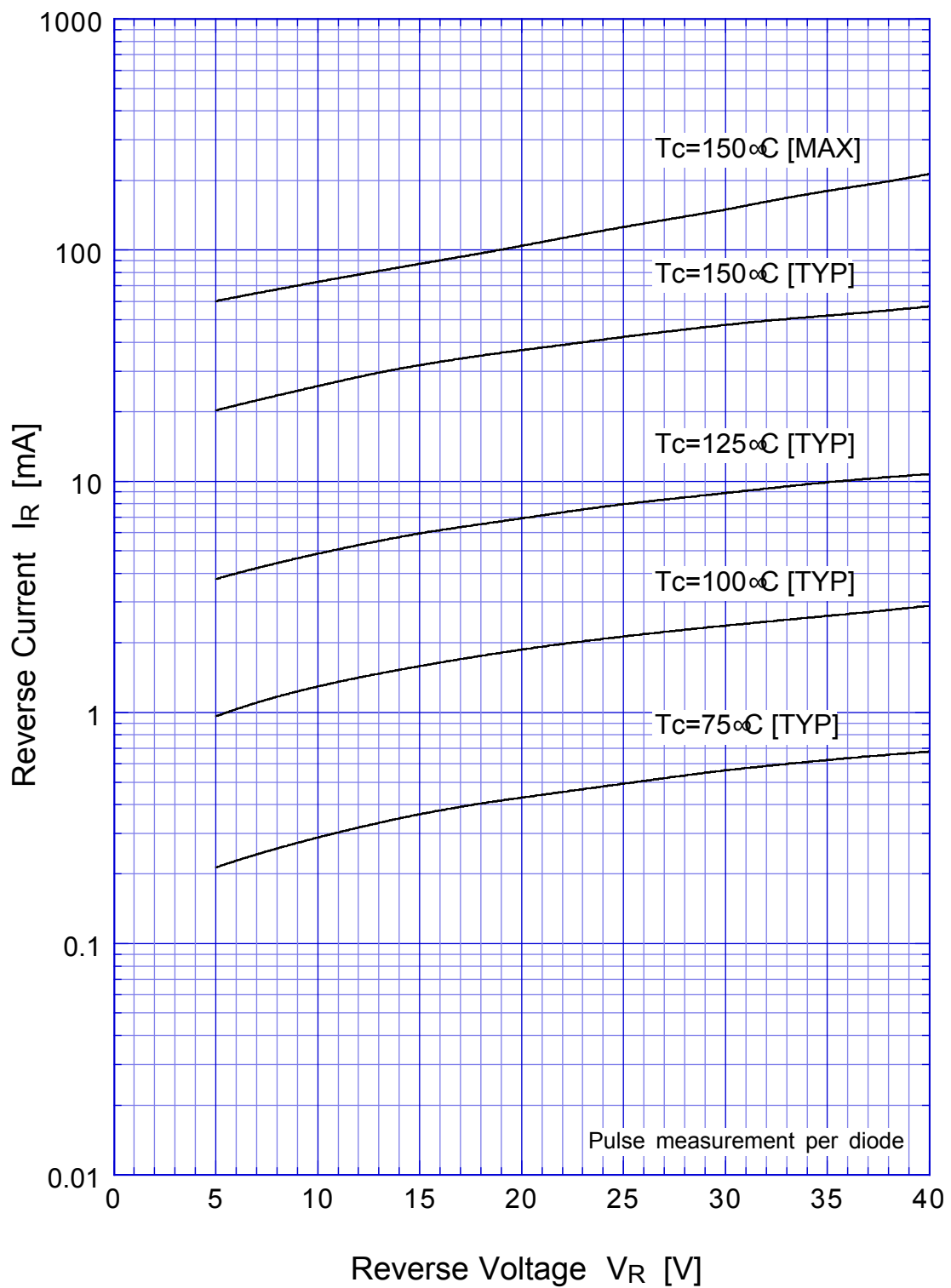
S5S4M

Junction Capacitance



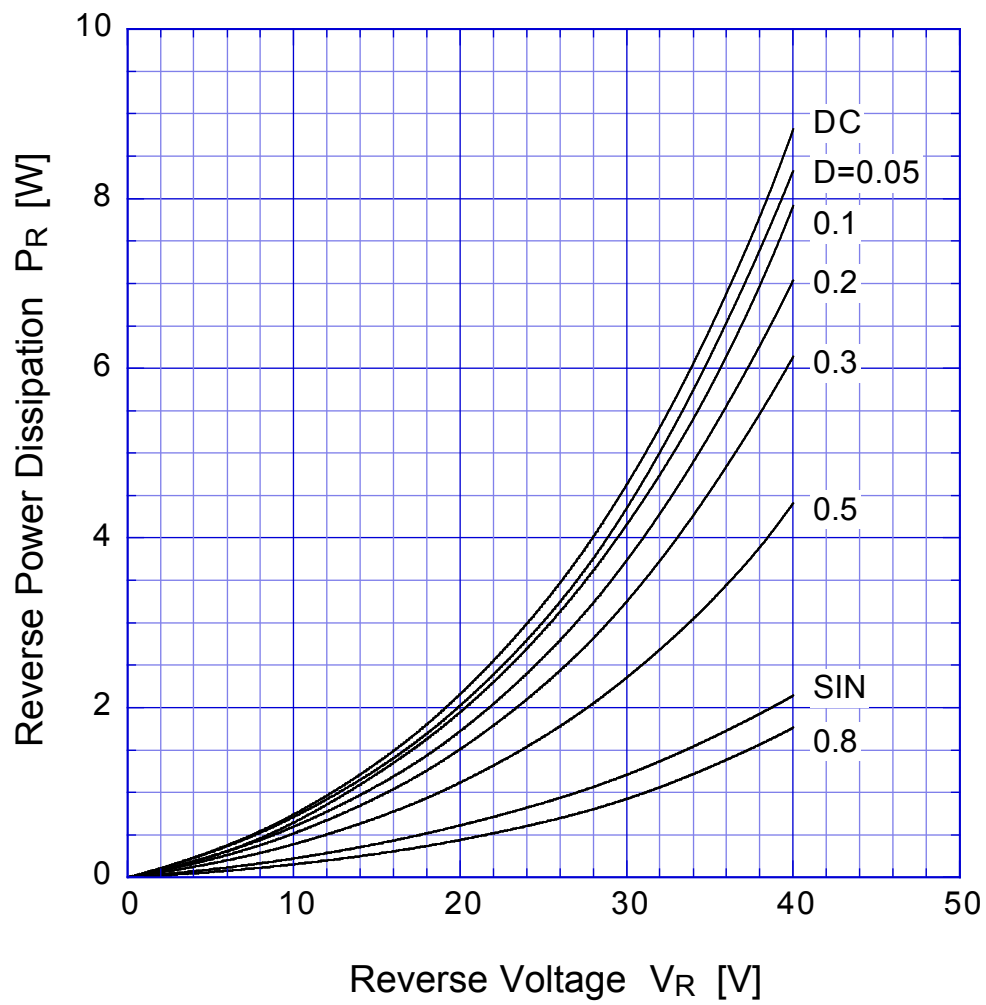
S5S4M

Reverse Current

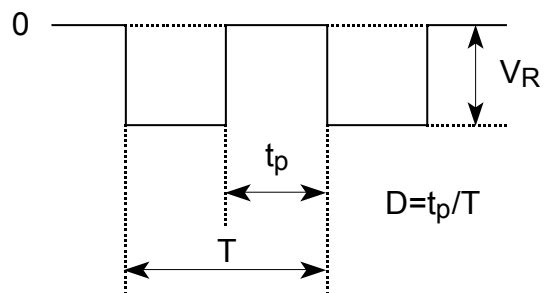


S5S4M

Reverse Power Dissipation

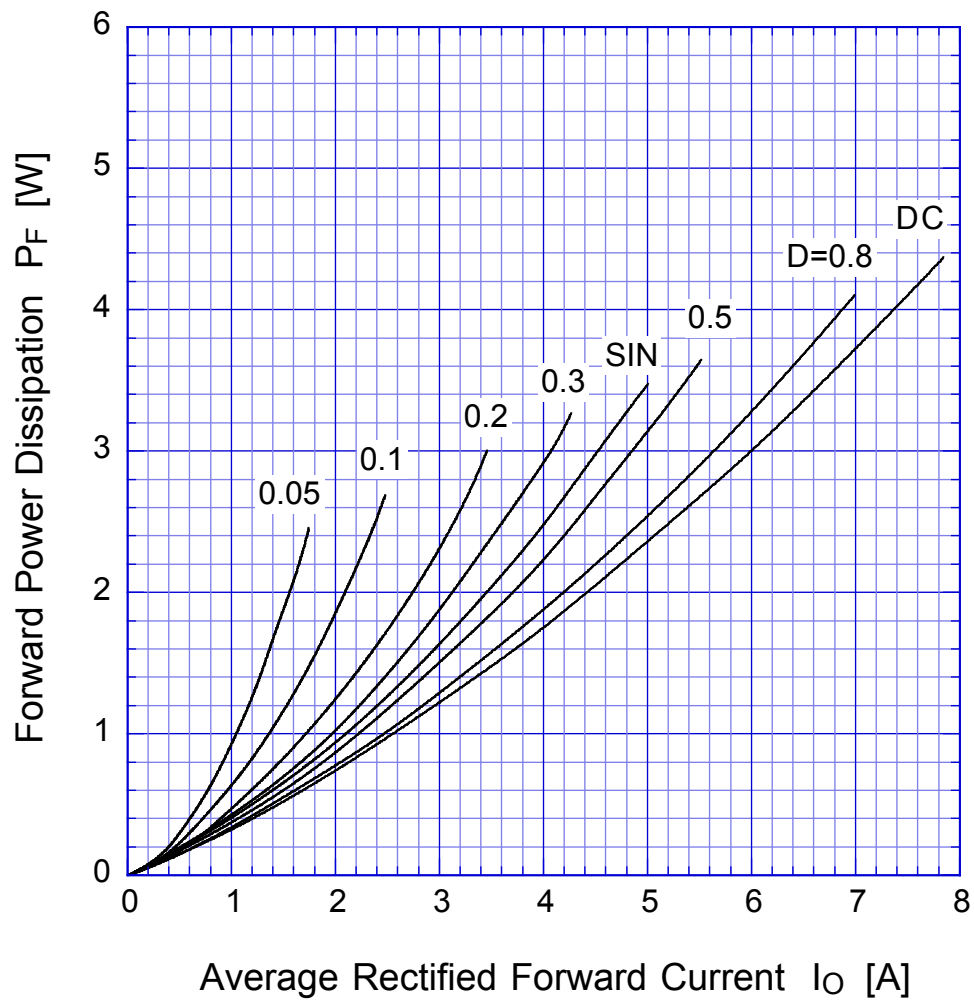


$T_j = 150^\circ\text{C}$



S5S4M

Forward Power Dissipation

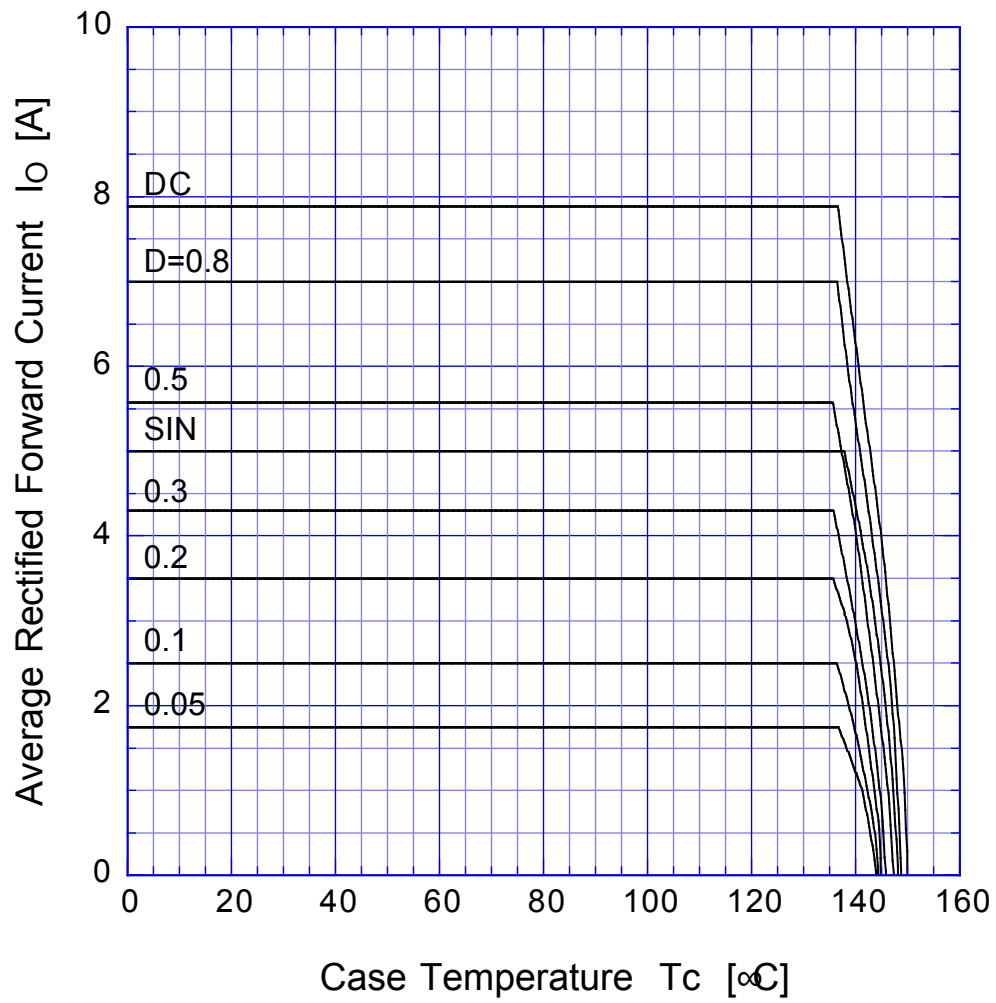


$T_j = 150^\circ\text{C}$



S5S4M

Derating Curve

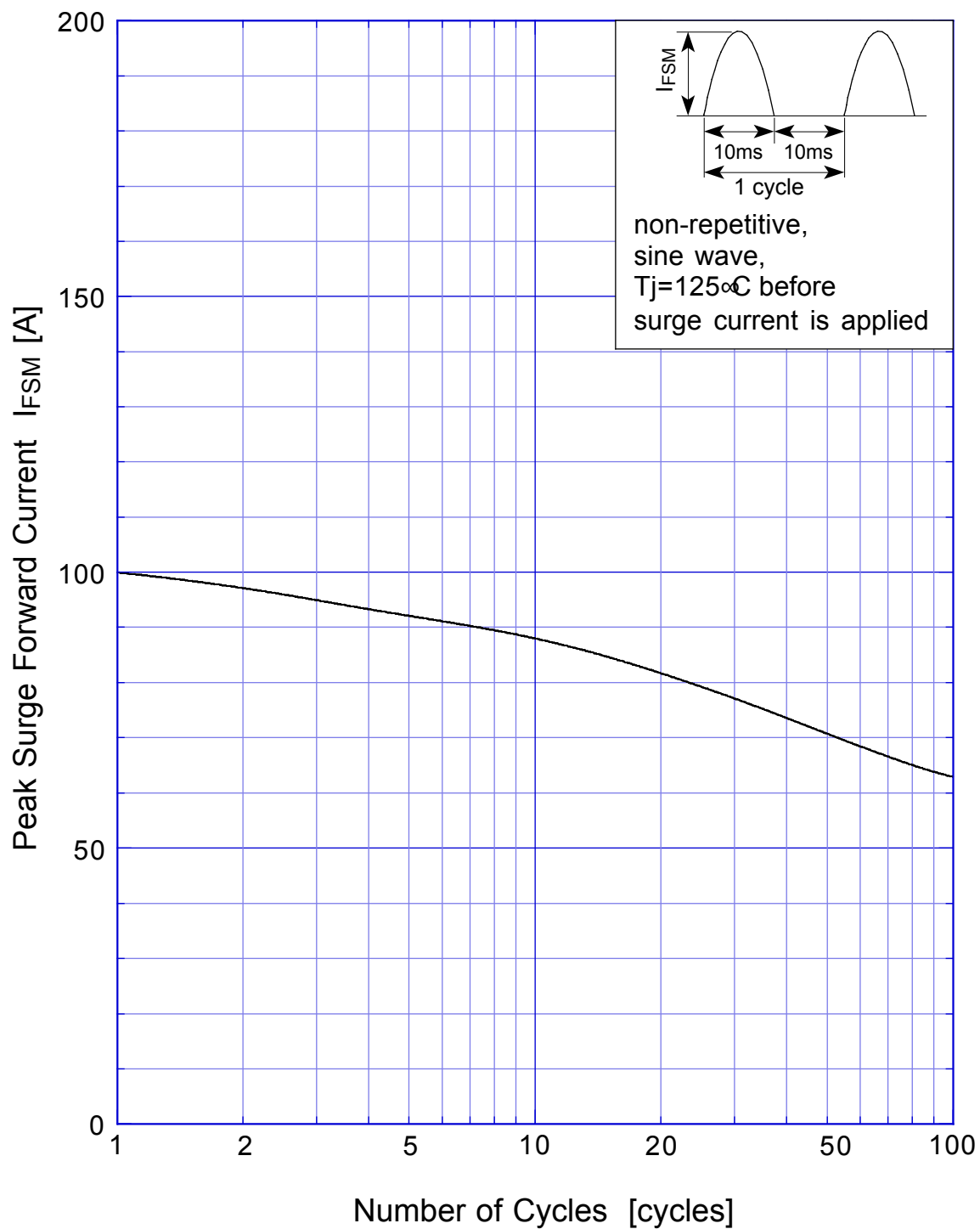


$V_R = 20V$



S5S4M

Peak Surge Forward Capability



SBD Repetitive Surge Reverse Power Derating Curve

