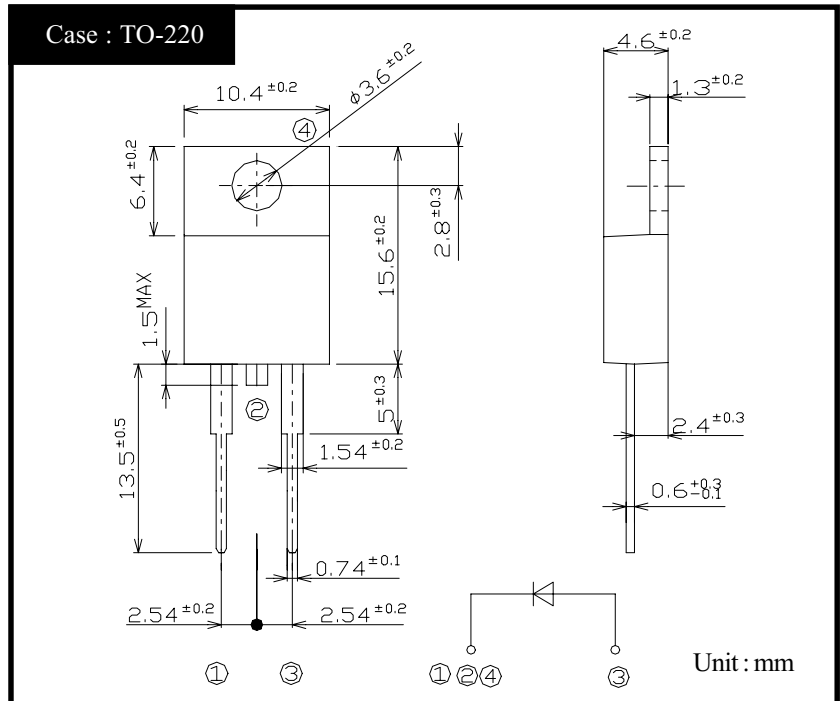


S5S4M

40V 5A

OUTLINE DIMENSIONS

Case : TO-220



RATINGS

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

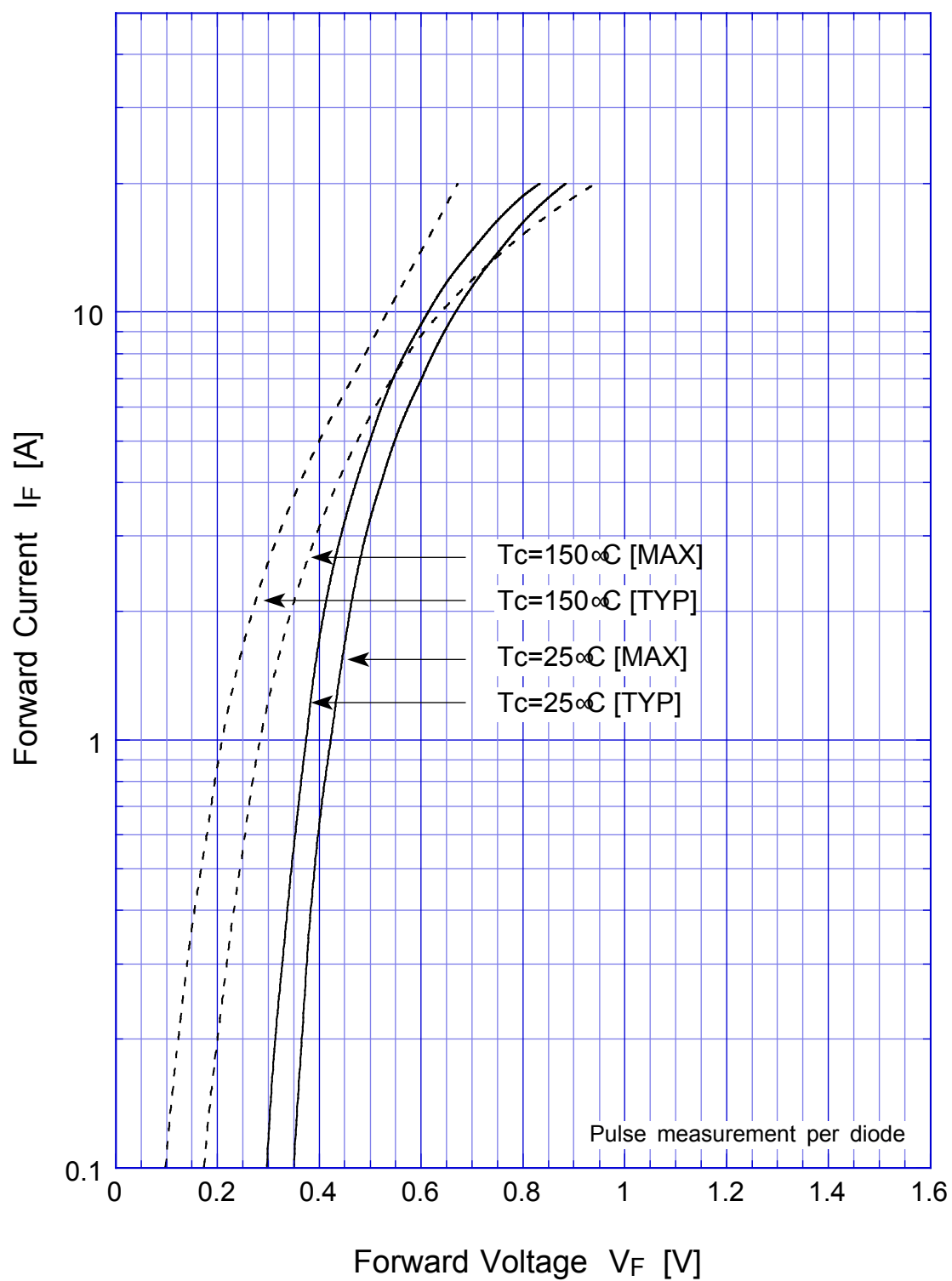
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	T _{stg}		-40~150	°C
Operating Junction Temperature	T _j		150	°C
Maximum Reverse Voltage	V _{RM}		40	V
Repetitive Peak Surge Reverse Voltage	V _{RRSM}	Pulse width 0.5ms, duty 1/40	45	V
Average Rectified Forward Current	I _O	50Hz sine wave, R-load T _c =138°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 μs, T _j =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	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	θ_{jc}	junction to case	Max.3	°C/W

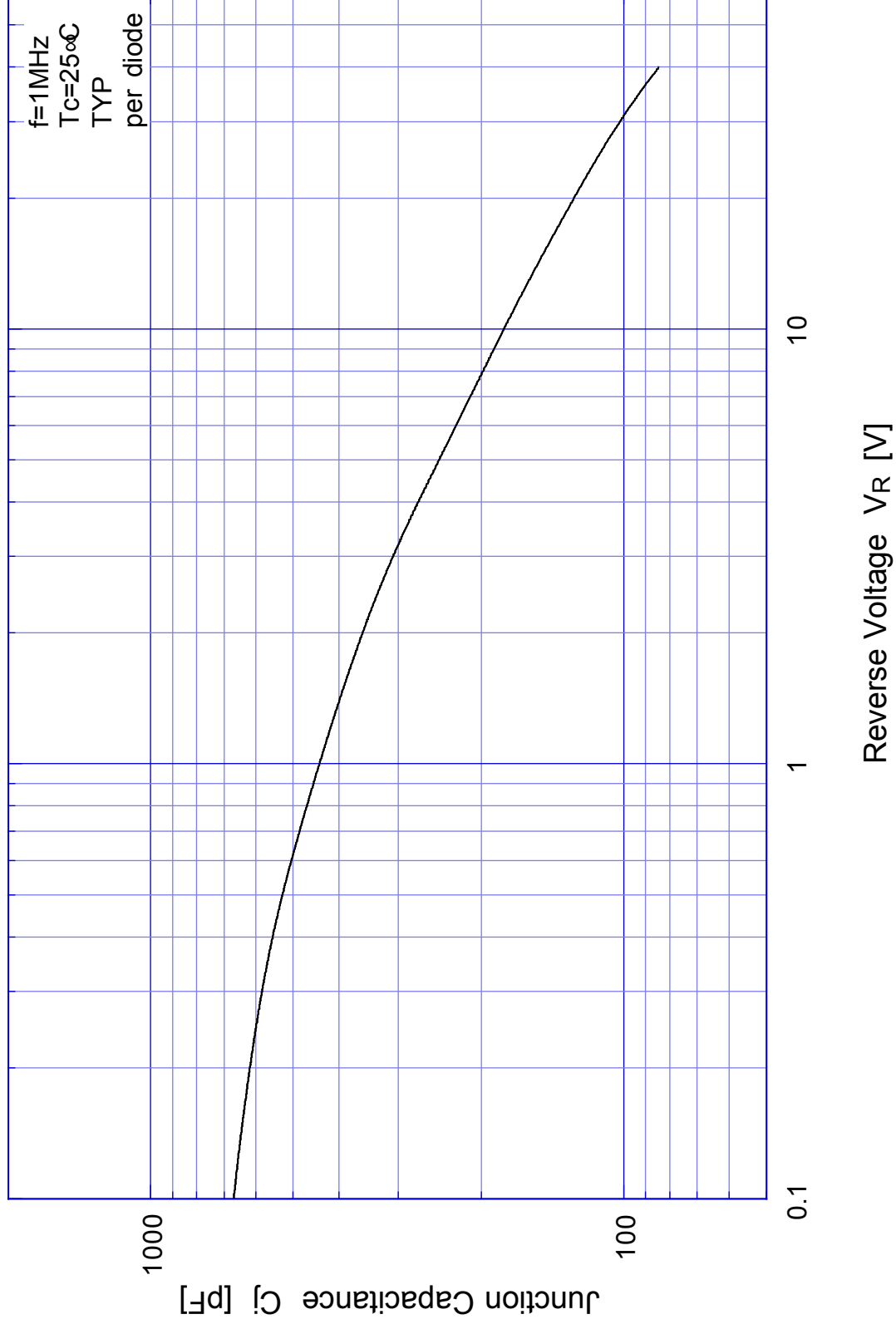
S5S4M

Forward Voltage



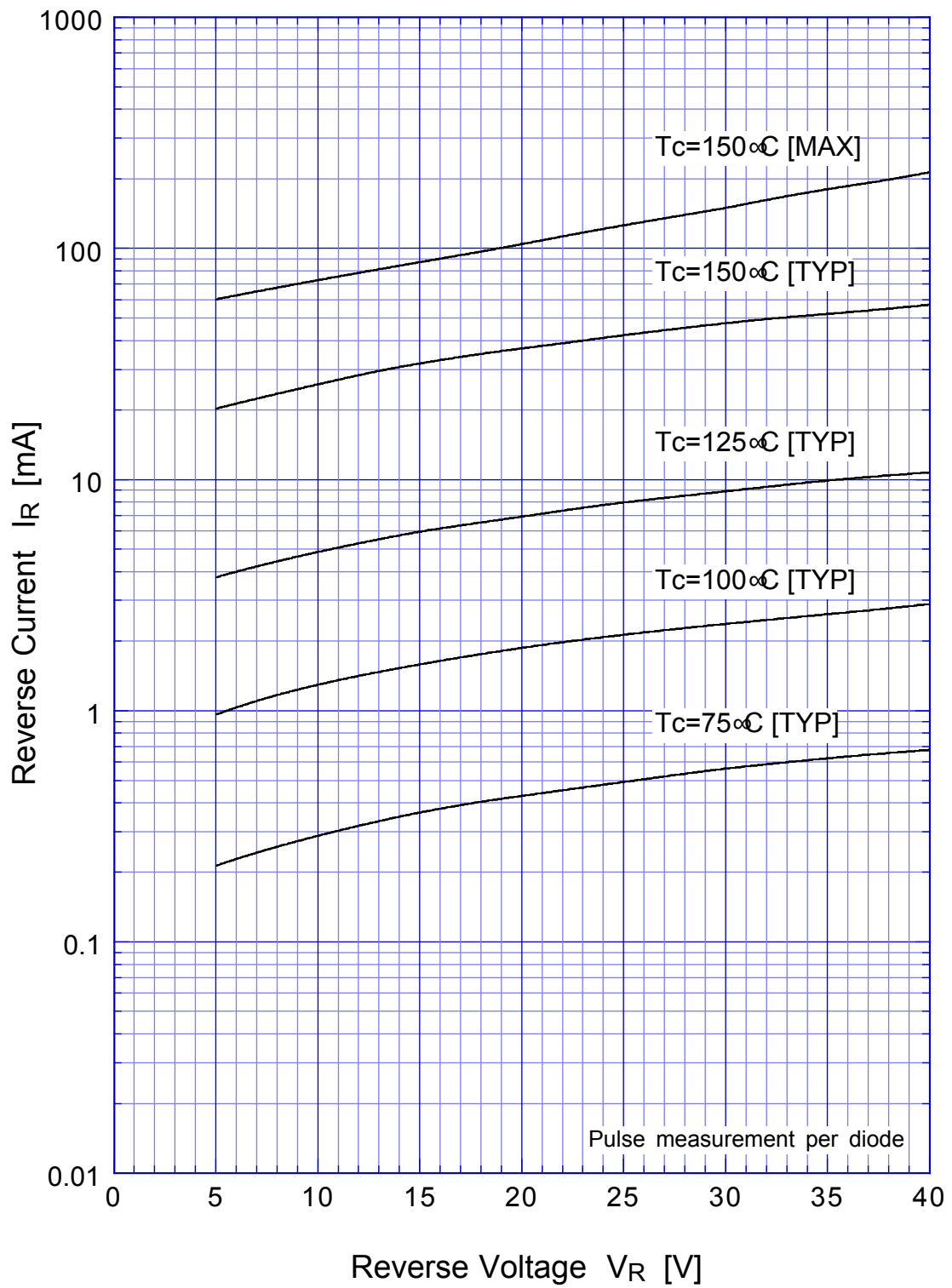
S5S4M

Junction Capacitance



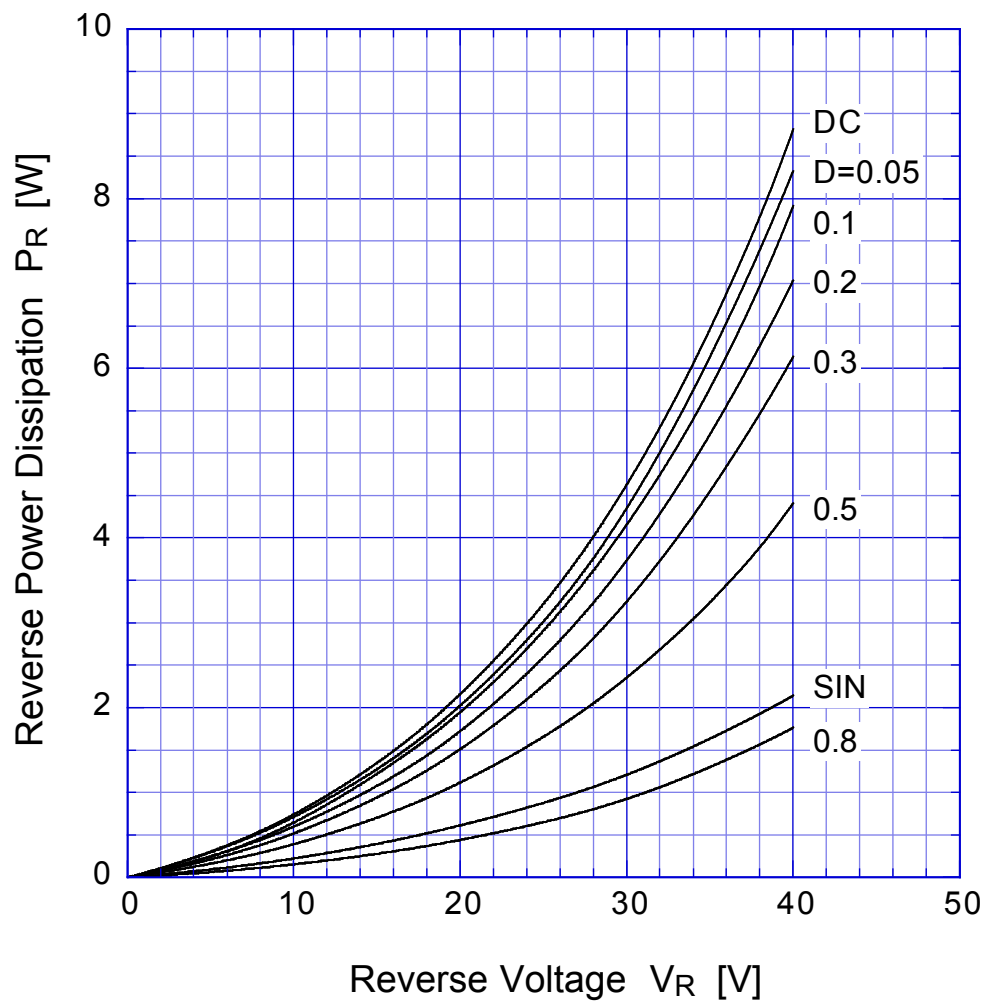
S5S4M

Reverse Current

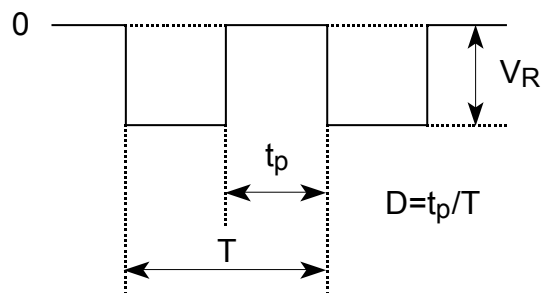


S5S4M

Reverse Power Dissipation

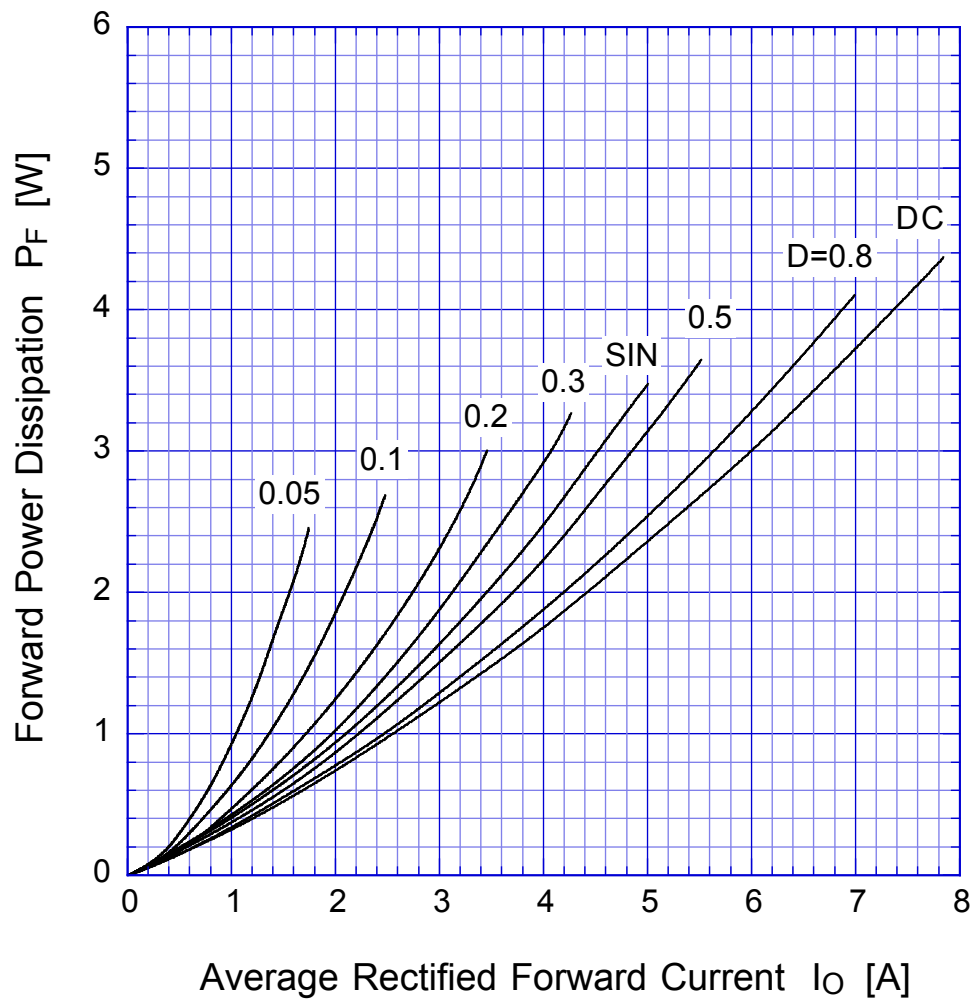


$T_j = 150^\circ\text{C}$

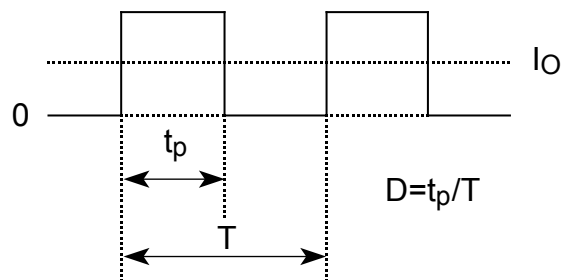


S5S4M

Forward Power Dissipation

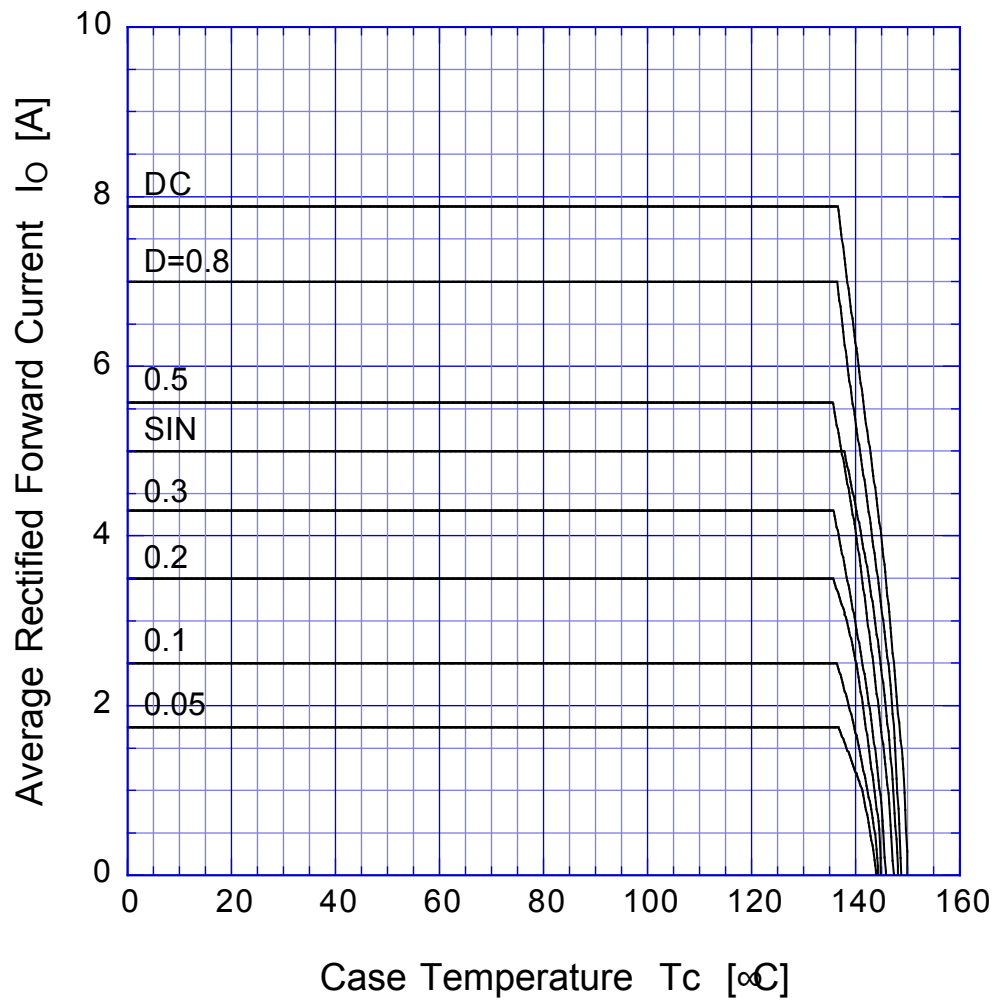


$T_j = 150^\circ\text{C}$

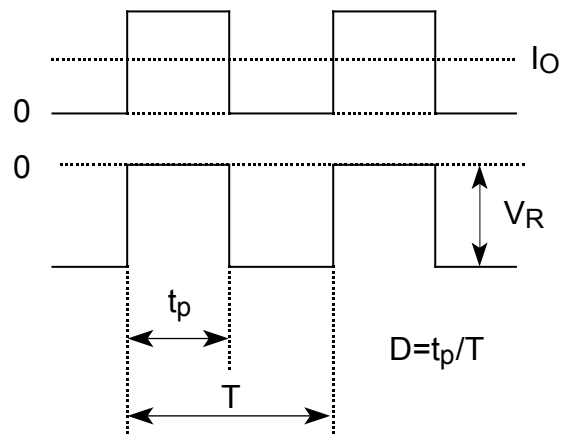


S5S4M

Derating Curve

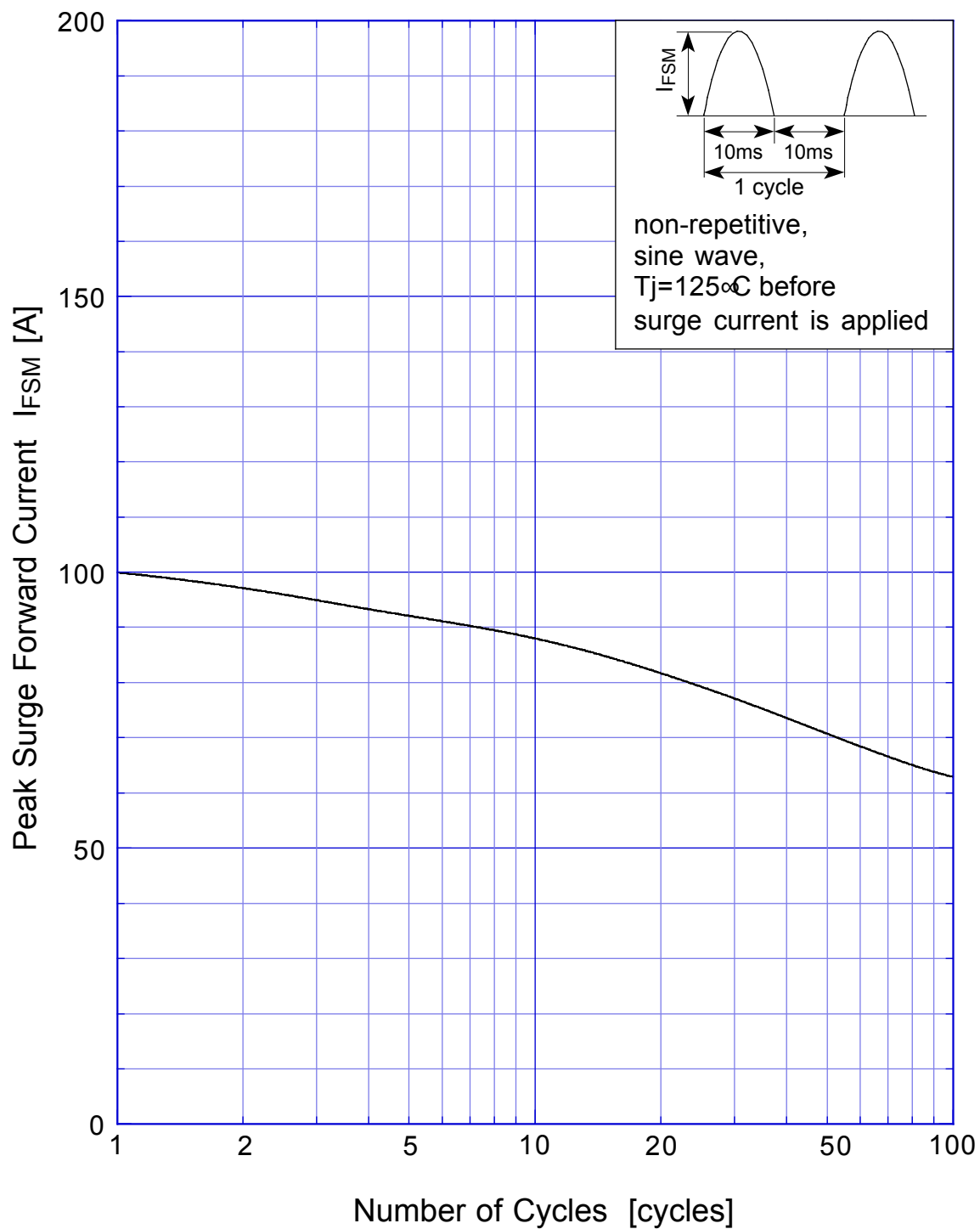


$V_R = 20V$



S5S4M

Peak Surge Forward Capability



SBD Repetitive Surge Reverse Power Derating Curve

