

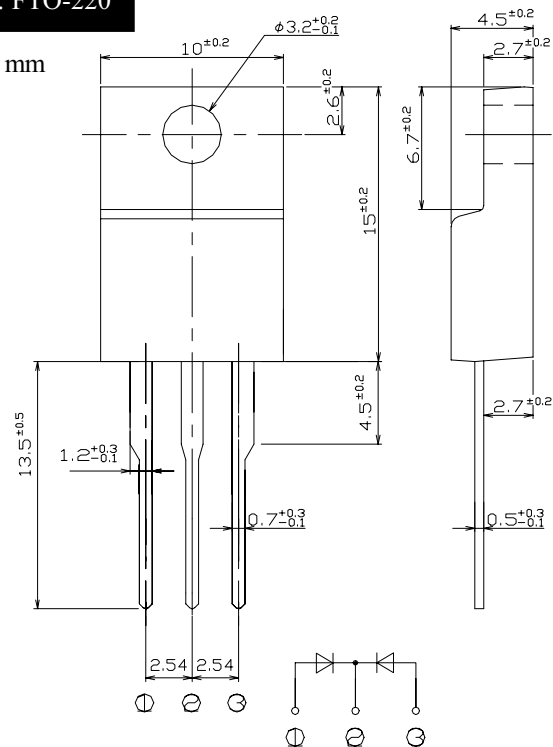
SF30JC10

100V 30A

OUTLINE DIMENSIONS

Case : FTO-220

Unit : mm



RATINGS

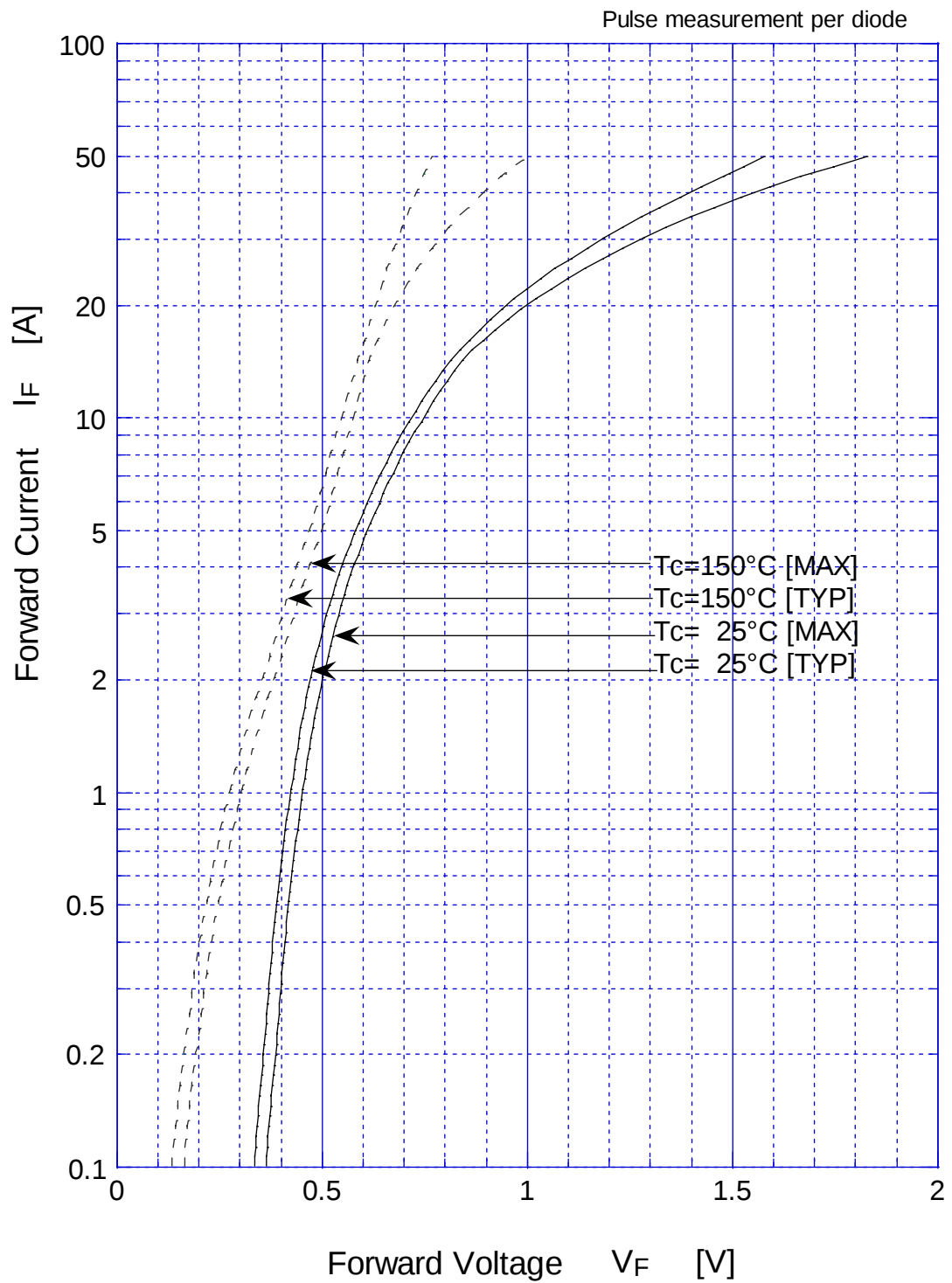
●Absolute Maximum Ratings (If not specified, Tc=25℃)

Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-55~150	°C
Operating Junction Temperature	Tj		150	°C
Maximum Reverse Voltage	V _{RM}		100	V
Average Rectified Forward Current	I _O	50Hz sine wave, R-load, Rating for each diode I _O /2, T _c =97°C	30	A
Peak Surge Forward Current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, T _j =25°C	300	A
Dielectric Strength	V _{dis}	Terminals to case, AC 1 minute	2.0	kV
Mounting Torque	TOR	(Recommended torque : 0.3N·m)	0.5	N·m

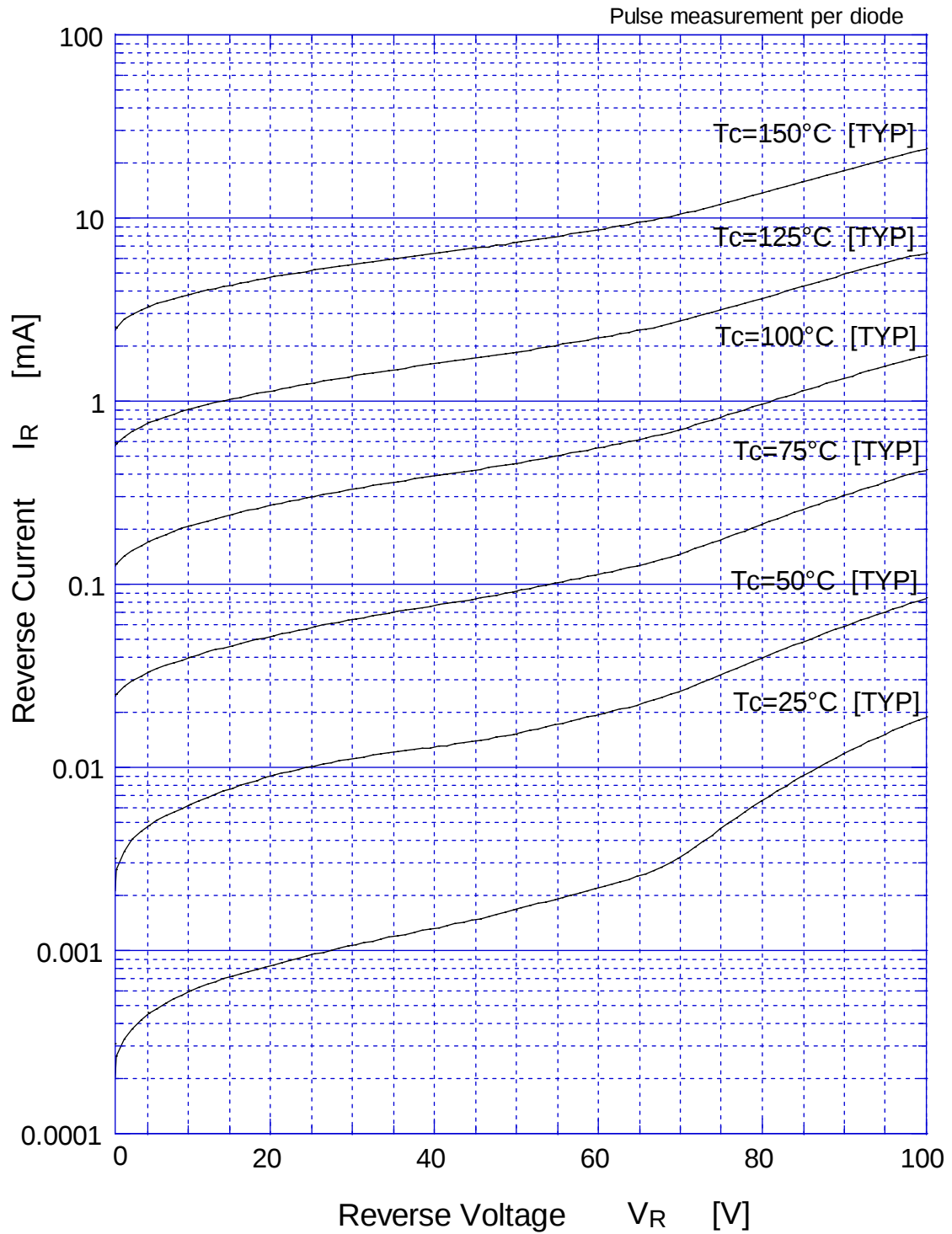
●Electrical Characteristics (If not specified, Tc=25℃)

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V_F	$I_F=15A$, Pulse measurement, Rating of per diode	Max 0.86	V
Reverse Current	I_R	$V_R=V_{RM}$, Pulse measurement, Rating of per diode	Max 1.0	mA
Junction Capacitance	C_j	$f=1MHz$, $V_R=10V$, Rating of per diode	Typ 390	pF
Thermal Resistance	θ_{jc}	junction to case	Max 2.0	°C/W

SF30JC10 Forward Voltage

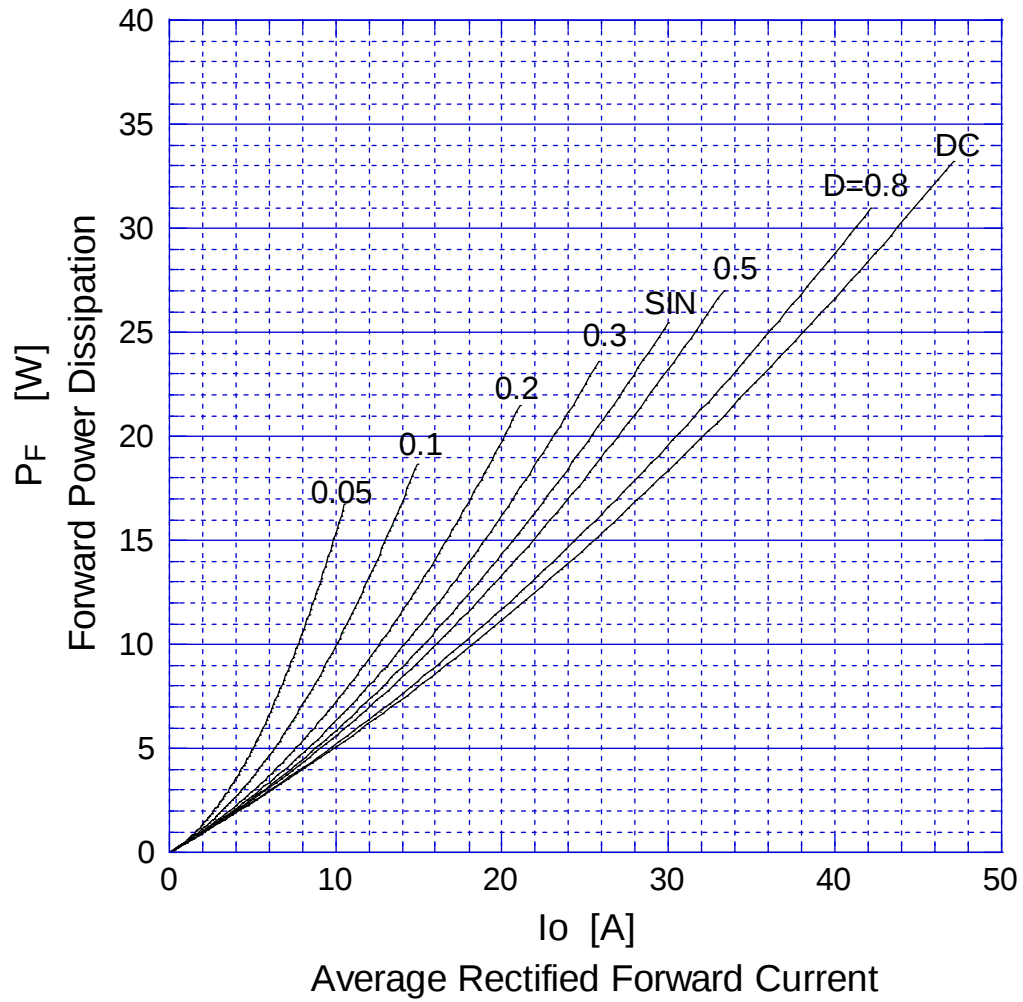


SF30JC10 Reverse Current

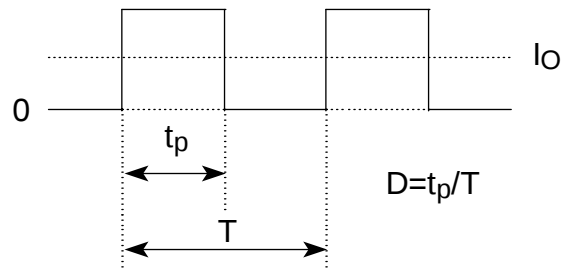


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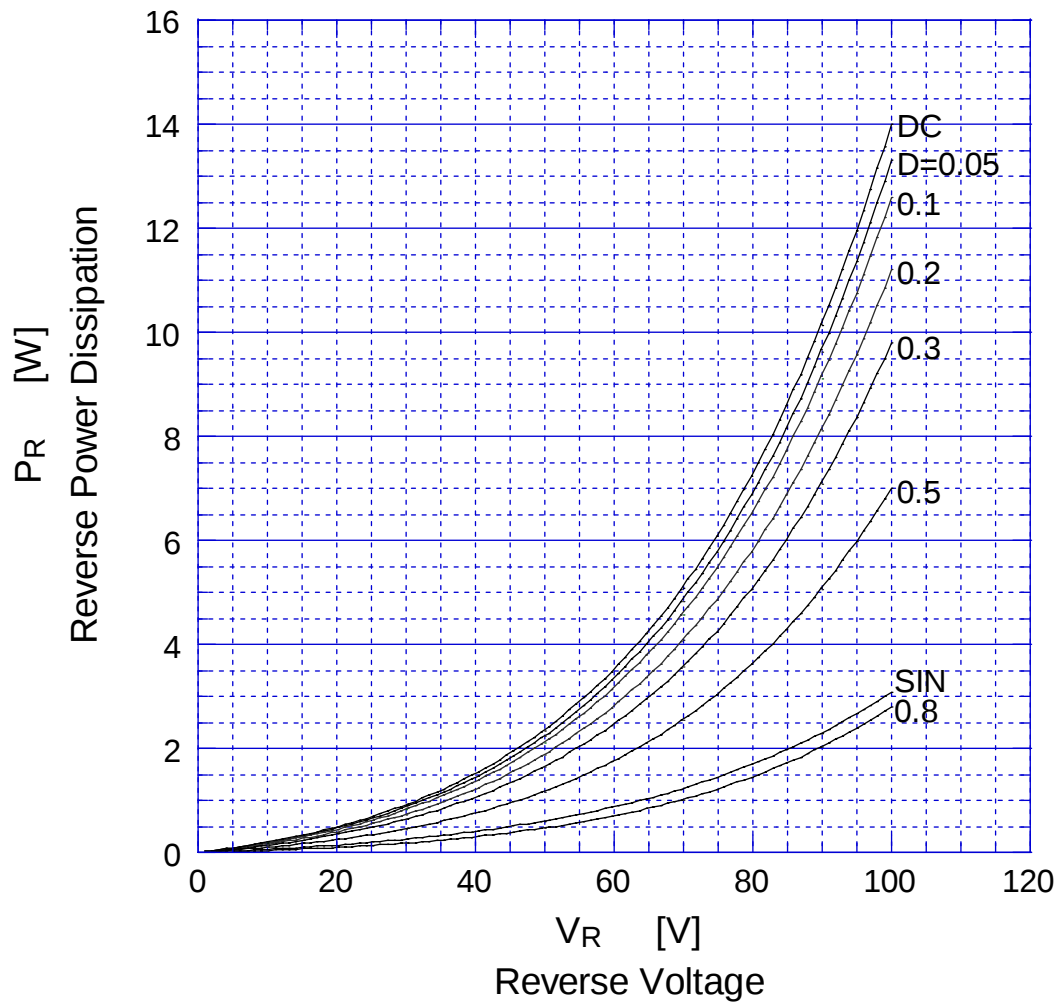
Forward Power Dissipation



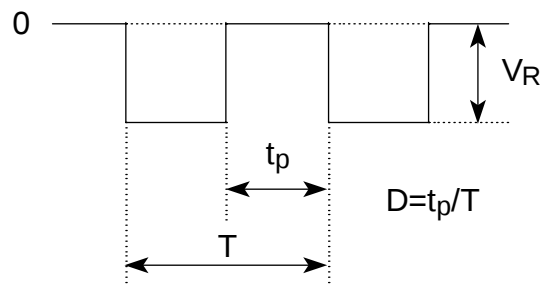
$T_j = 150^\circ\text{C}$



SF30JC10 Reverse Power Dissipation

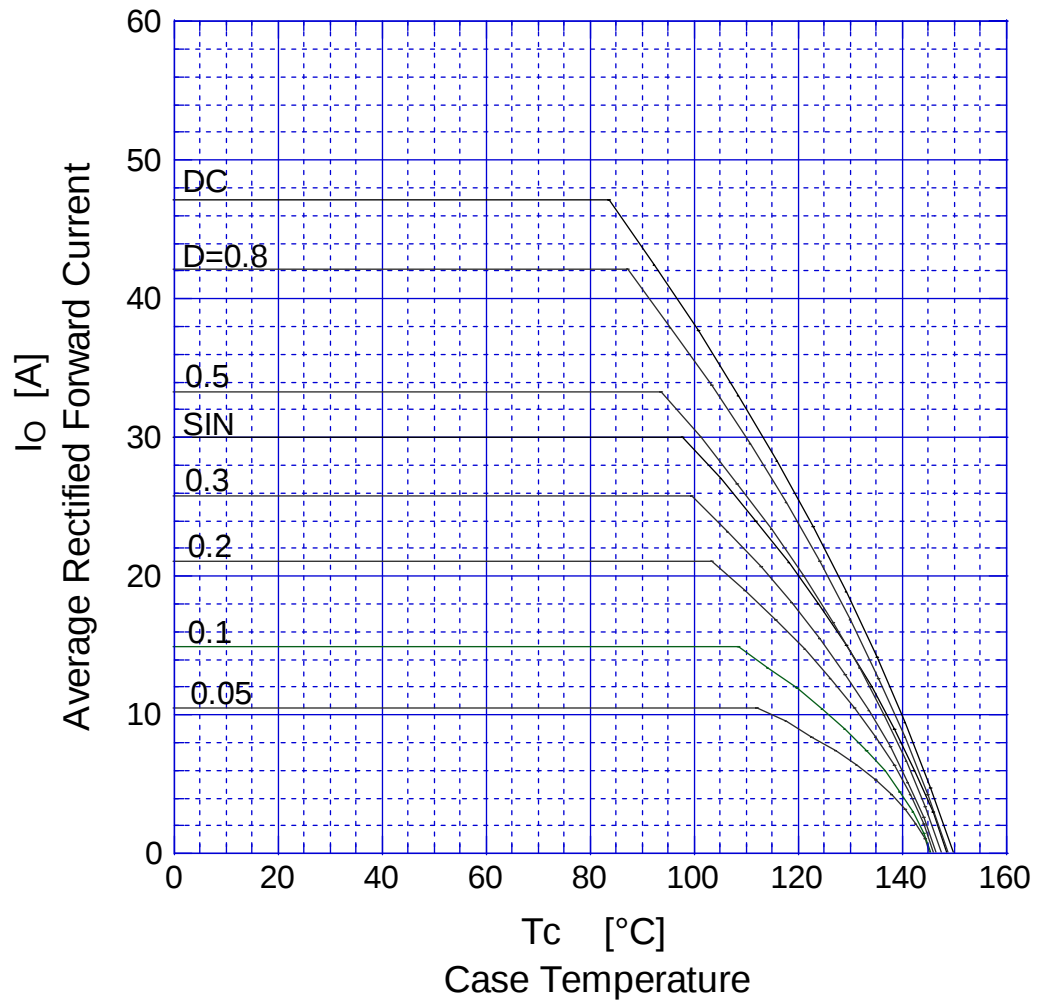


$T_j = 150^\circ\text{C}$

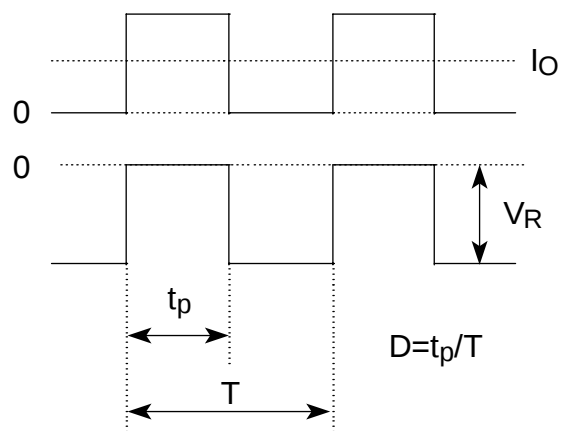


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Derating Curve

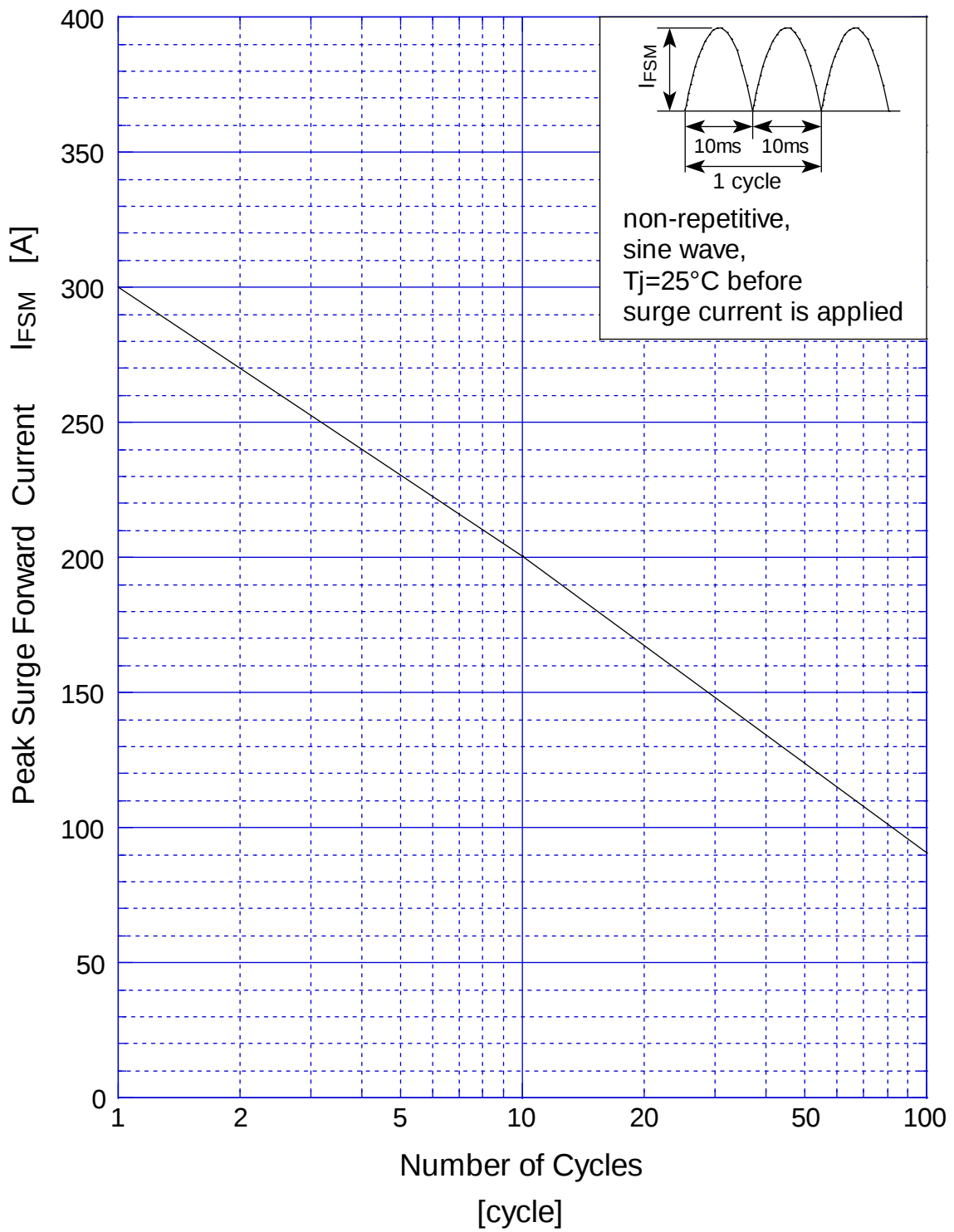


$V_R = 50V$



SF30JC10

Peak Surge Forward Capability



SF30JC10 Junction Capacitance

