

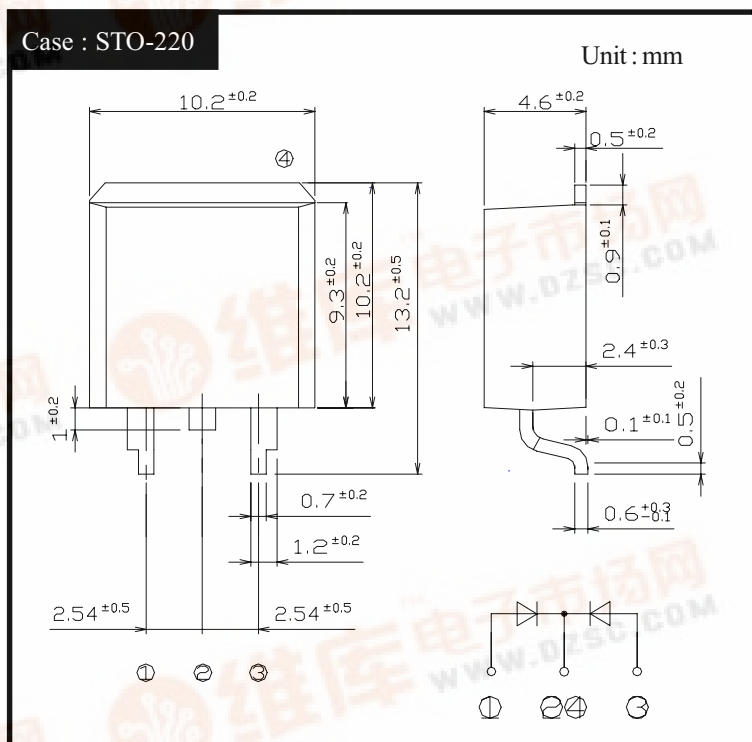
DF30JC6

60V 30A

OUTLINE DIMENSIONS

Case : STO-220

Unit : mm



RATINGS

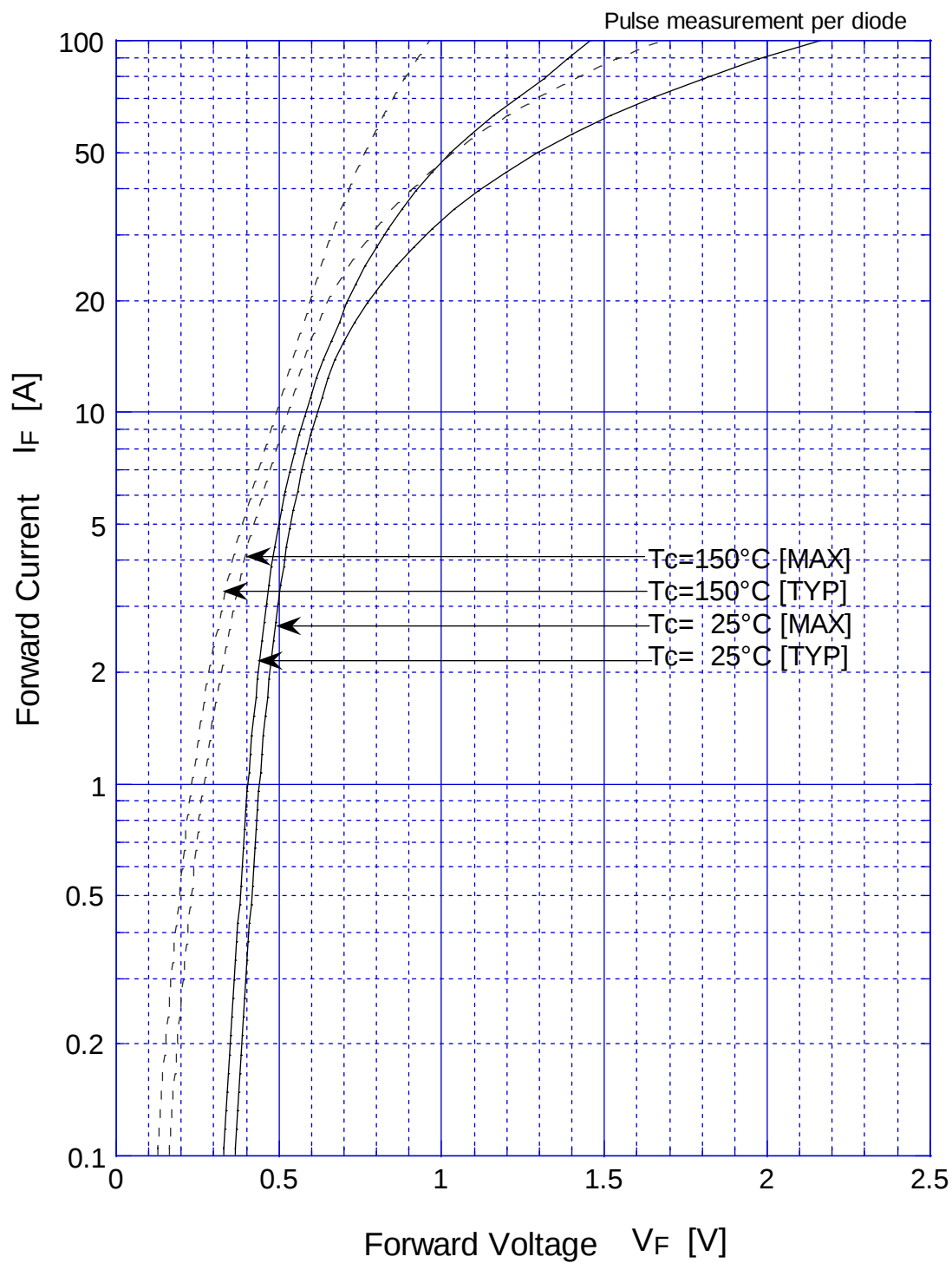
●Absolute Maximum Ratings (Unless otherwise specified, Tc=25°C)

Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-55~150	°C
Operating Junction Temperature	Tj		150	°C
Maximum Reverse Voltage	VRM		60	V
Repetitive Peak Surge Reverse Voltage	VRRSM	Pulse width 0.5ms, duty 1/40	65	V
Average Rectified Forward Current	Io	50Hz sine wave, R-load, Rating for each diode Io/2, Tc=108°C	30	A
Peak Surge Forward Current	IFSM	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C	250	A

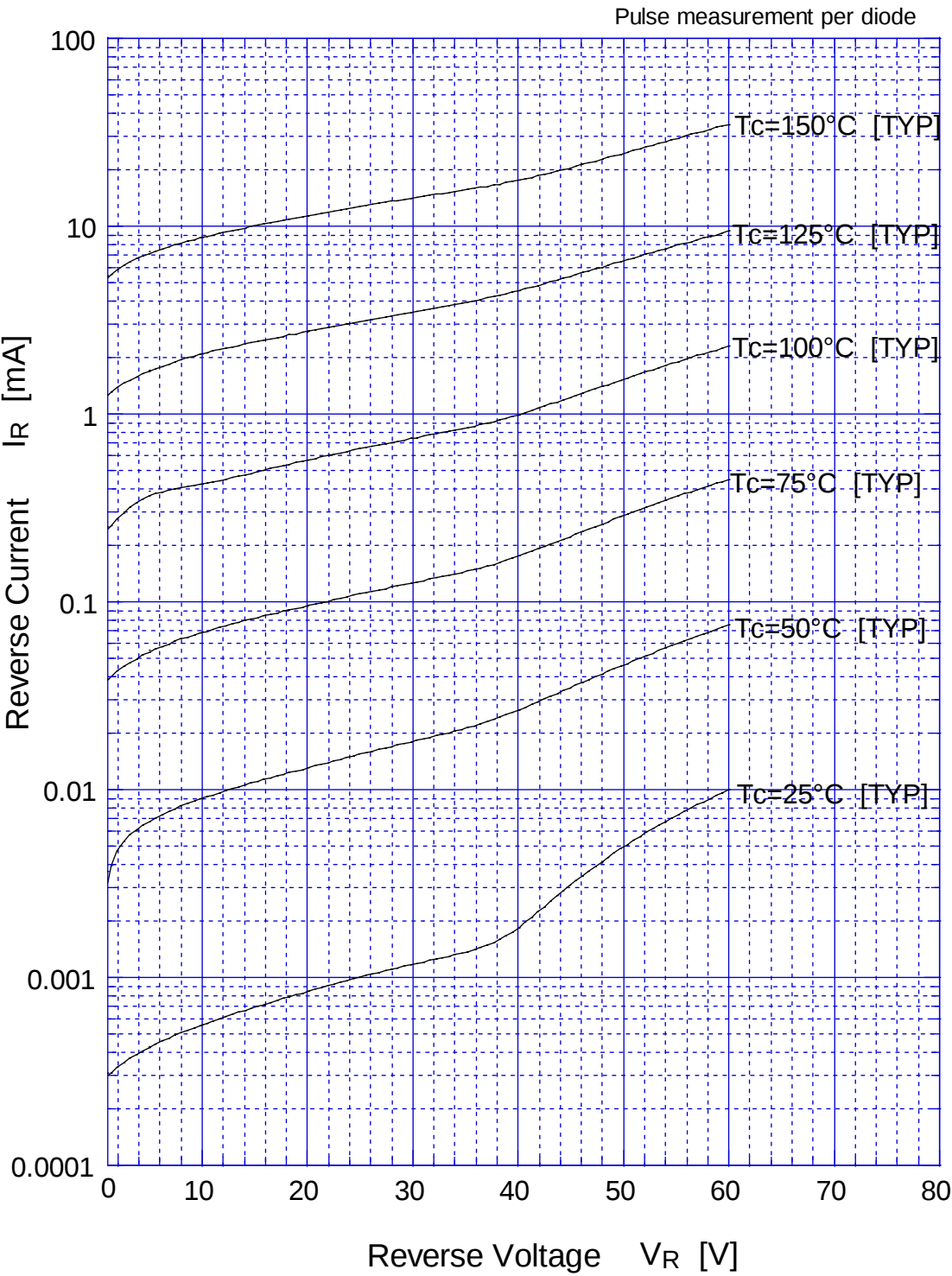
●Electrical Characteristics (Unless otherwise specified, Tc=25°C)

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	VF	IF=15A, Pulse measurement, Rating of per diode	Max 0.69	V
Reverse Current	IR	VR=VRM, Pulse measurement, Rating of per diode	Max 0.7	mA
Junction Capacitance	Cj	f=1MHz, VR=10V, Rating of per diode	Typ 490	pF
Thermal Resistance	θ_{jc}	junction to case	Max 1.6	°C/W

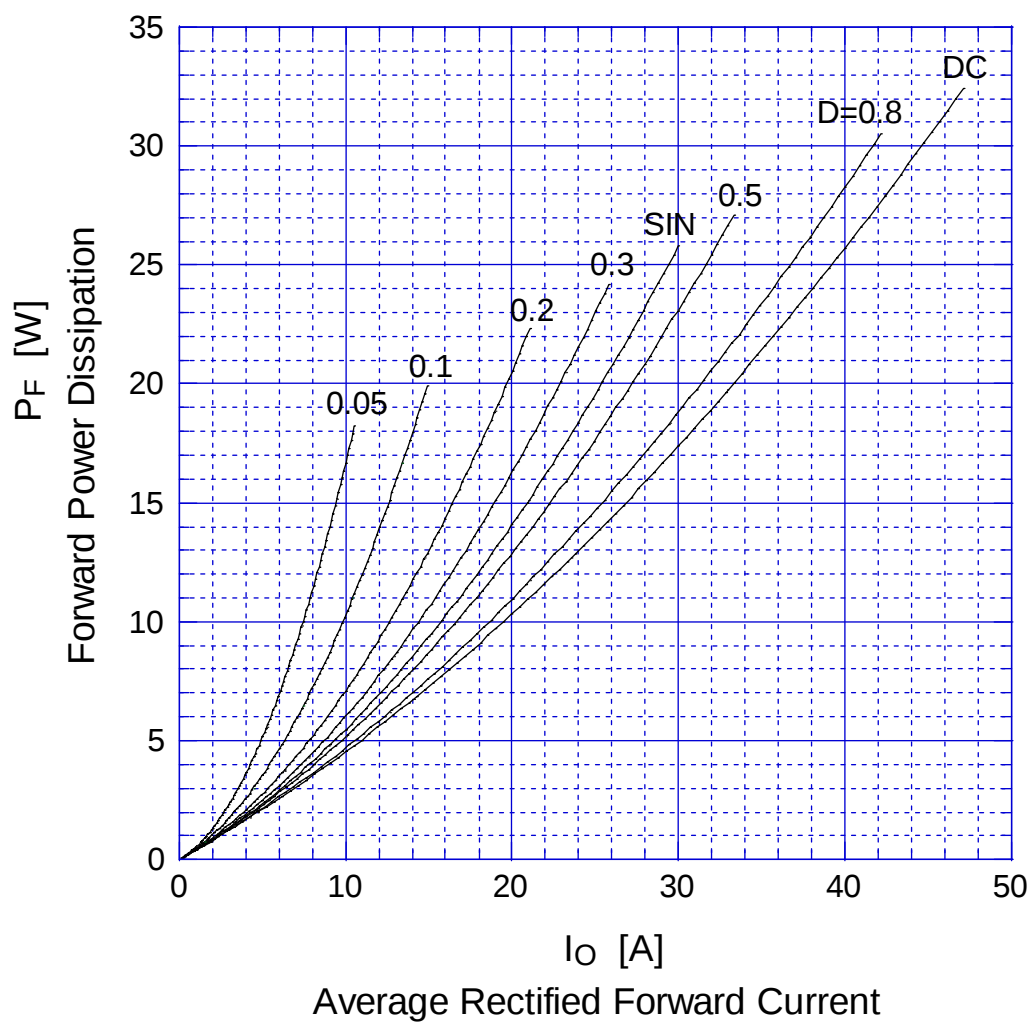
DF30JC6 Forward Voltage



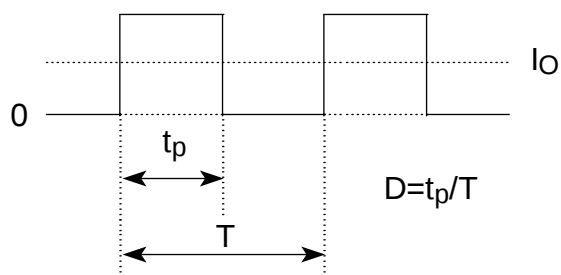
DF30JC6 Reverse Current



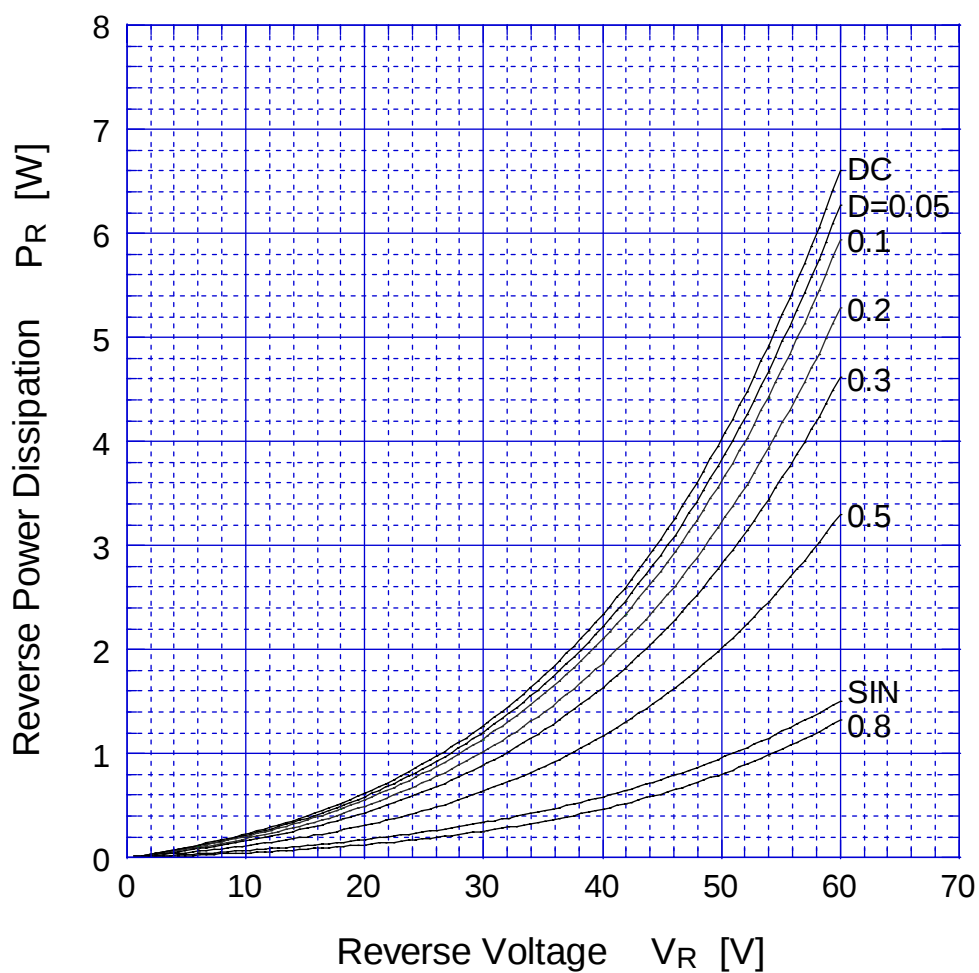
DF30JC6 Forward Power Dissipation



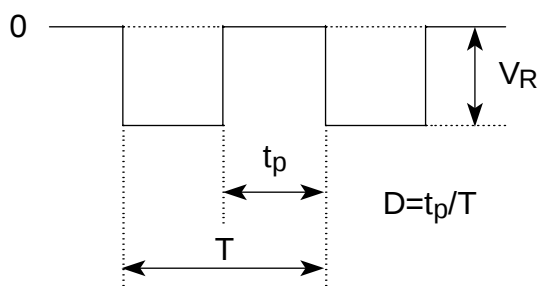
$T_j = 150^\circ\text{C}$



DF30JC6 Reverse Power Dissipation

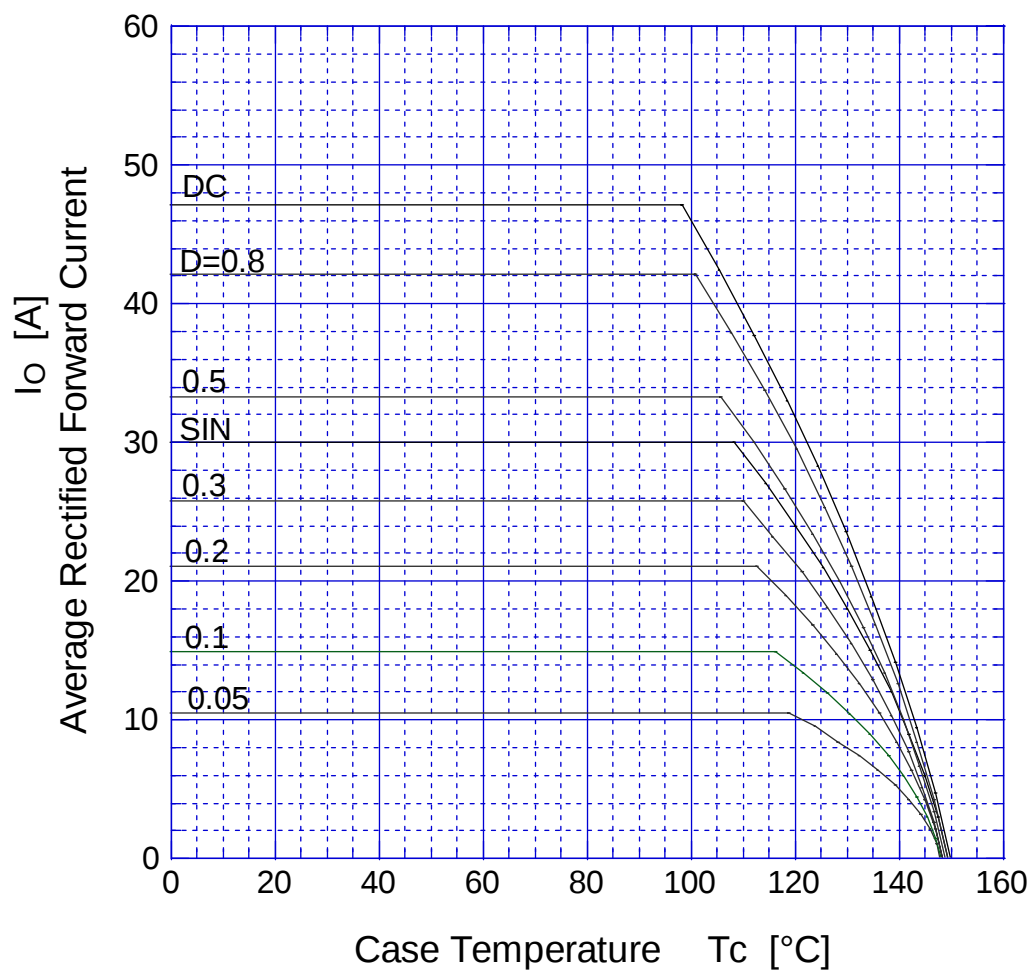


$T_j = 150^\circ\text{C}$

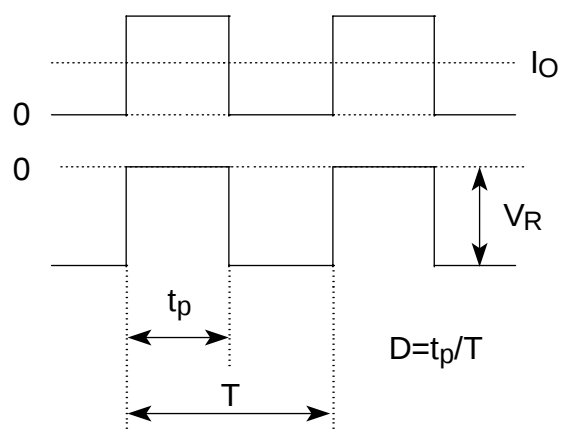


DF30JC6

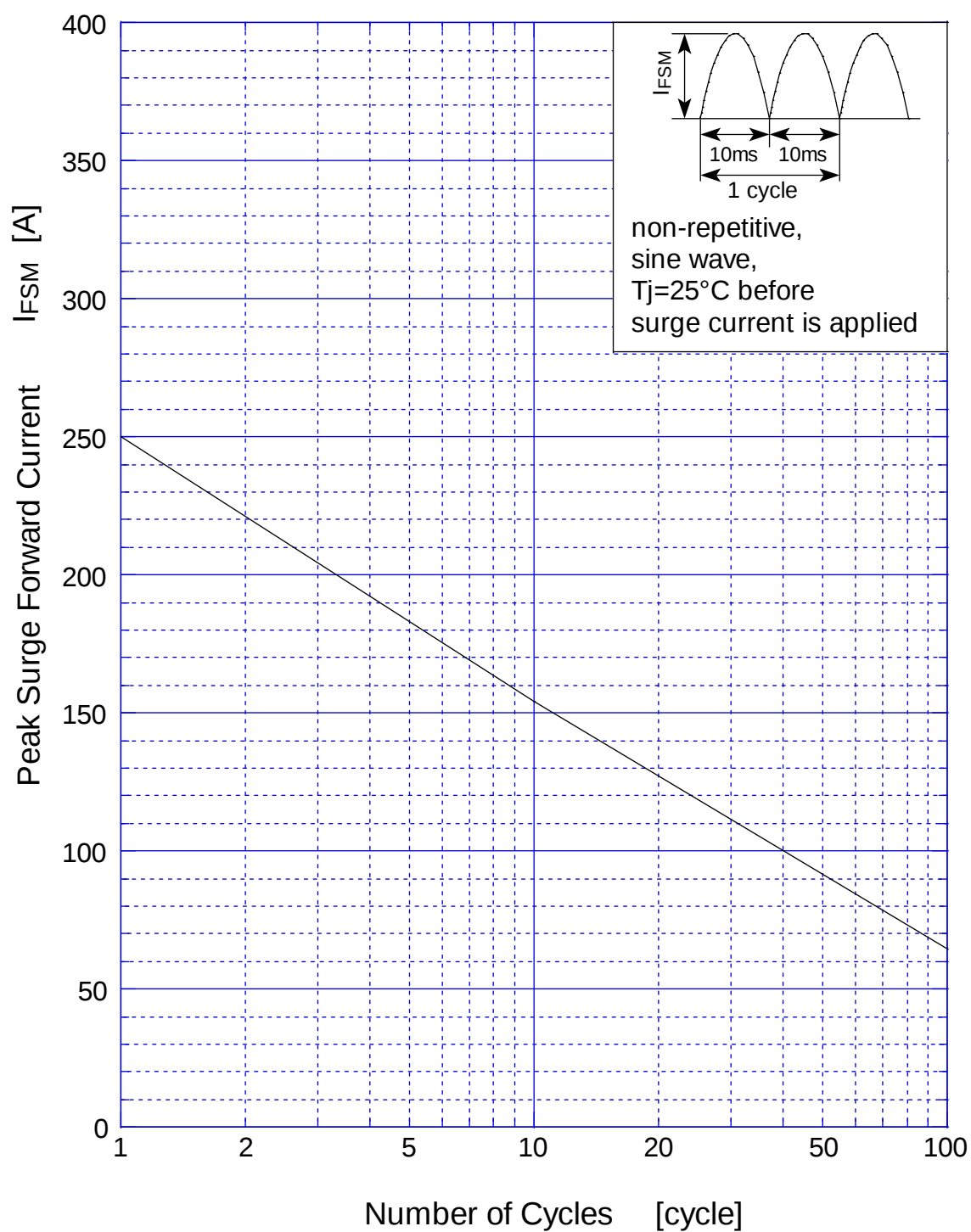
Derating Curve



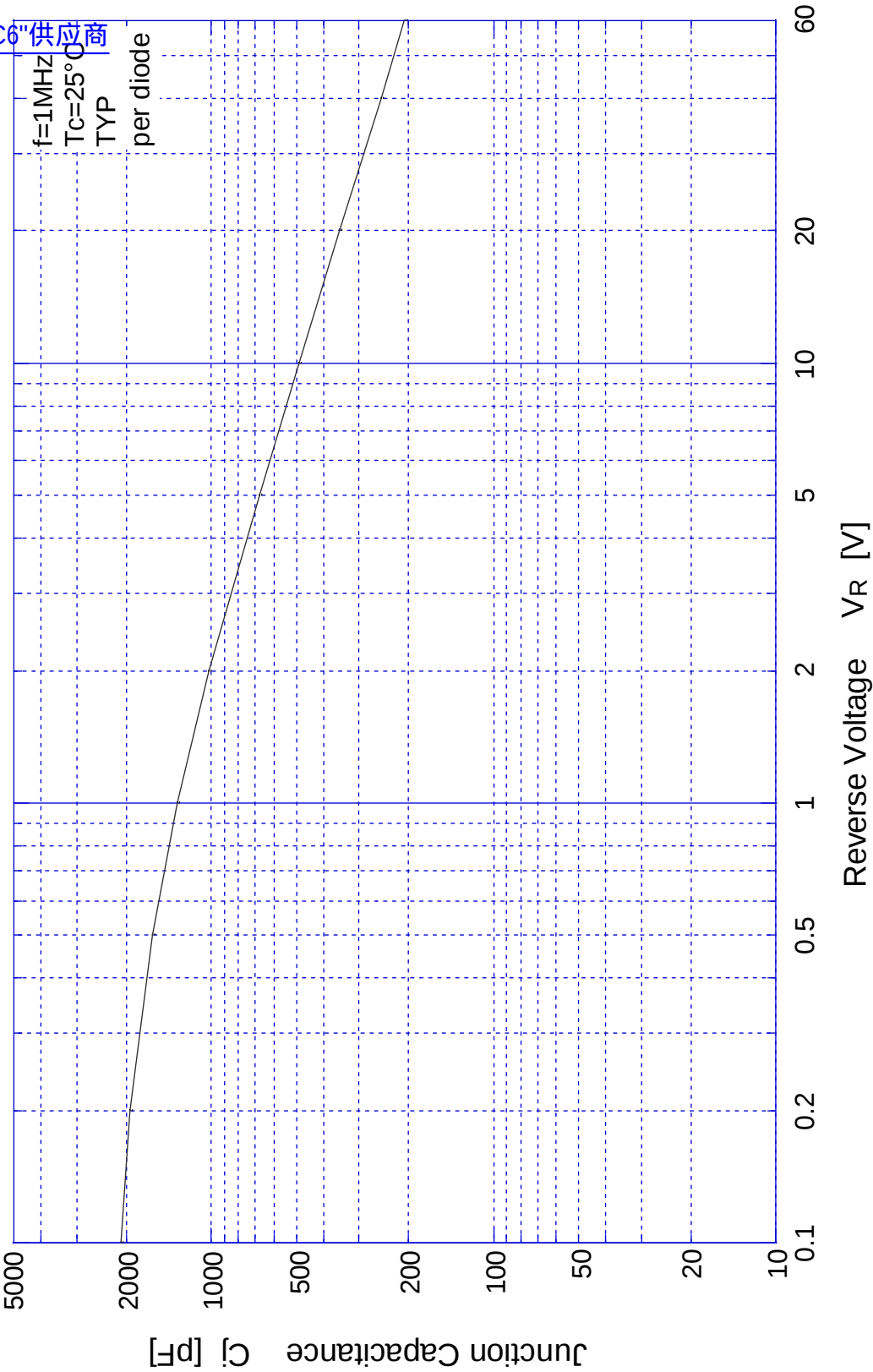
$V_R = 30V$



DF30JC6 Peak Surge Forward Capability



DF30JC6 Junction Capacitance



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