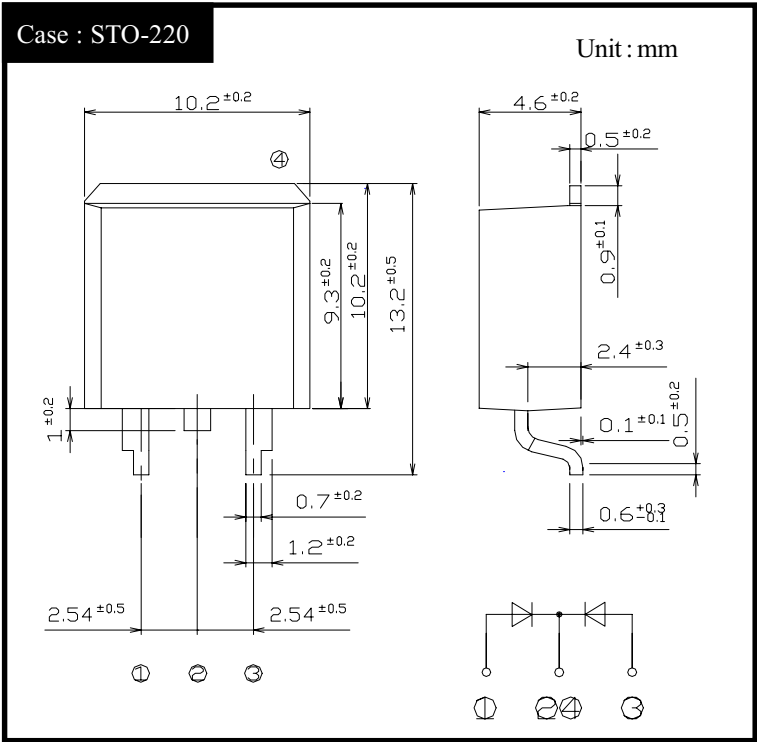


DF30JC4

40V 30A

OUTLINE DIMENSIONS



RATINGS

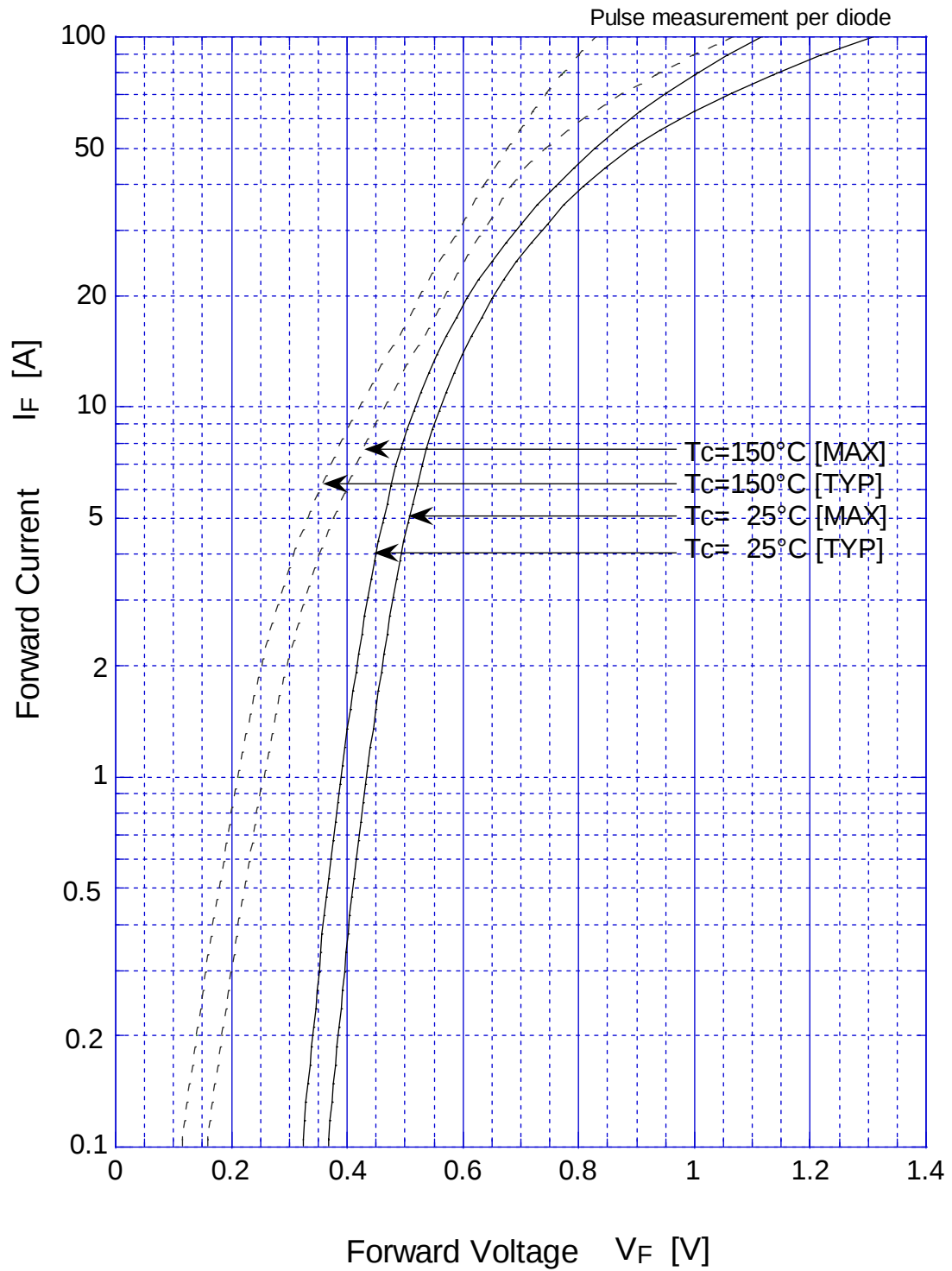
●Absolute Maximum Ratings (Unless otherwise specified, Tc=25°C)

Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-55~150	°C
Operating Junction Temperature	Tj		150	°C
Maximum Reverse Voltage	VRM		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, Rating for each diode Io/2, Tc=115°C	30	A
Peak Surge Forward Current	IFSM	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C	250	A

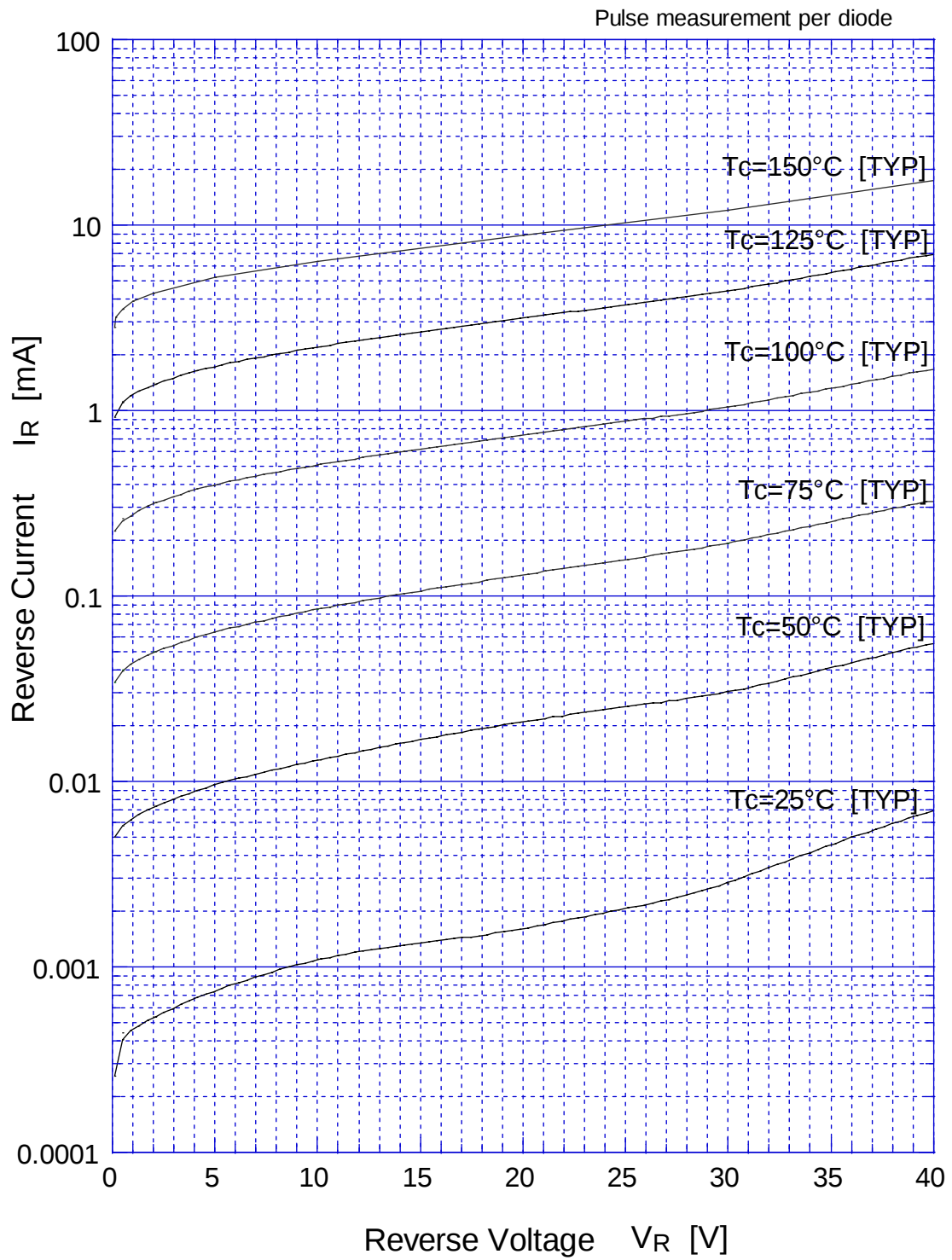
●Electrical Characteristics (Unless otherwise specified, Tc=25°C)

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	VF	IF=15A, Pulse measurement, Rating of per diode	Max 0.61	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 560	pF
Thermal Resistance	θ jc	junction to case	Max 1.6	°C/W

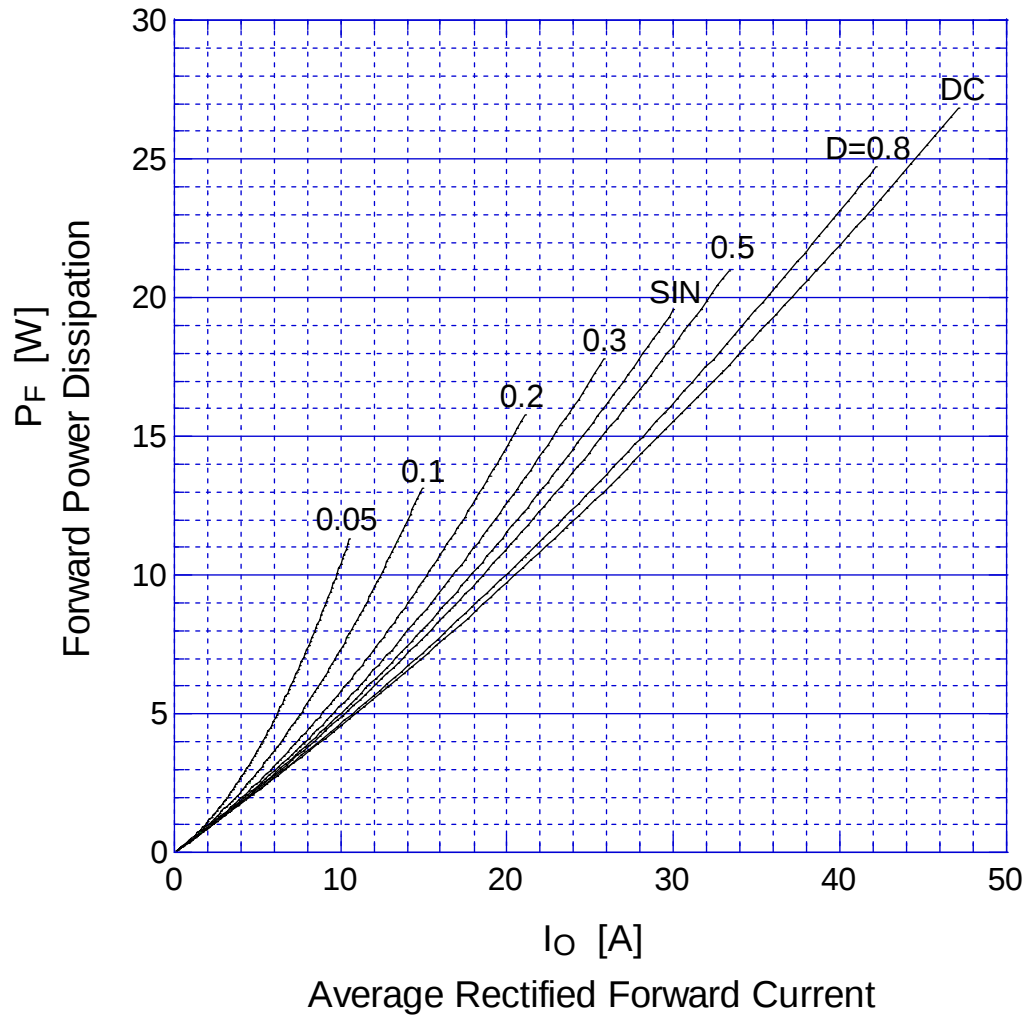
DF30JC4 Forward Voltage



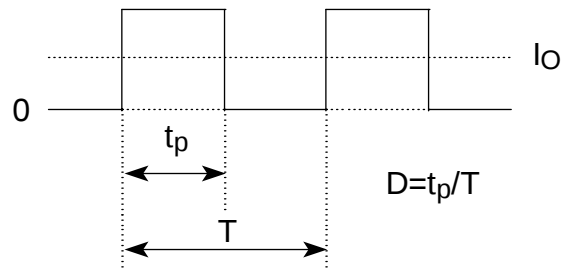
DF30JC4 Reverse Current



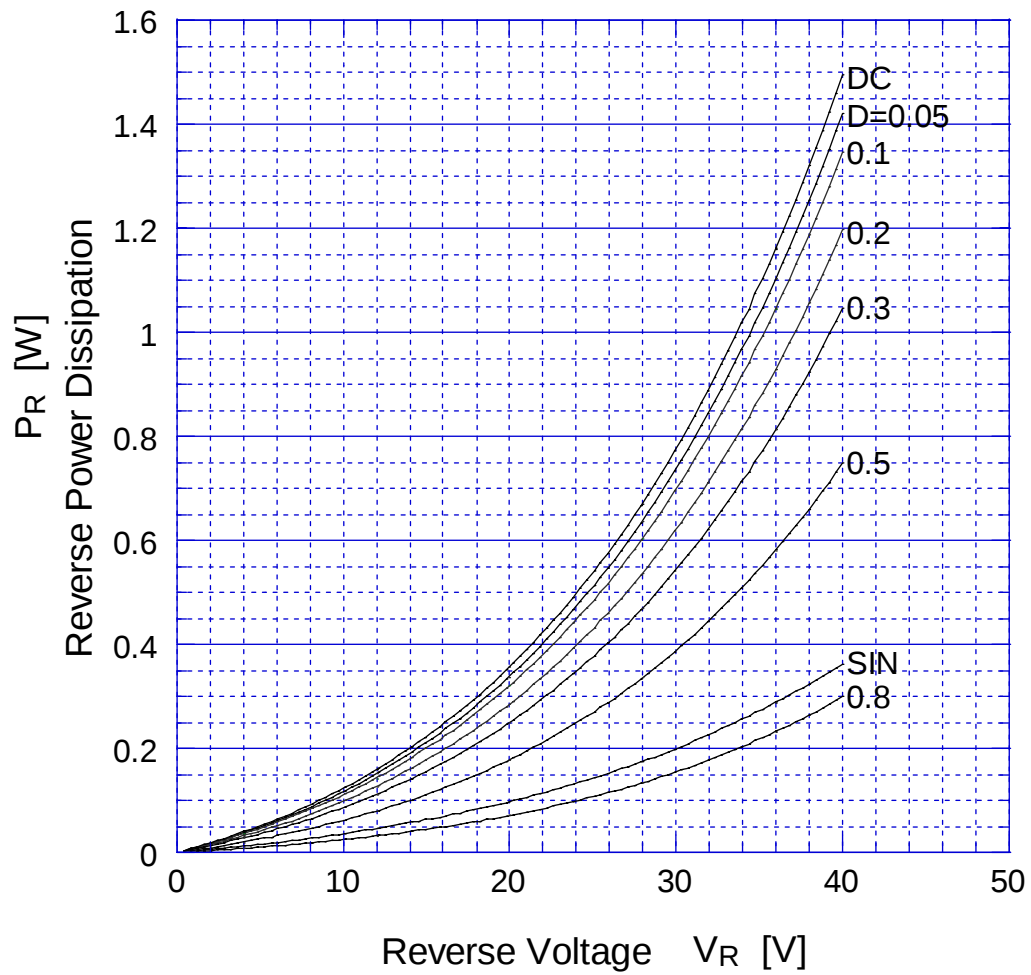
DF30JC4 Forward Power Dissipation



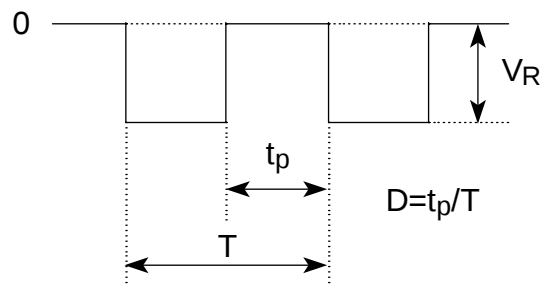
$T_j = 150^\circ\text{C}$



DF30JC4 Reverse Power Dissipation

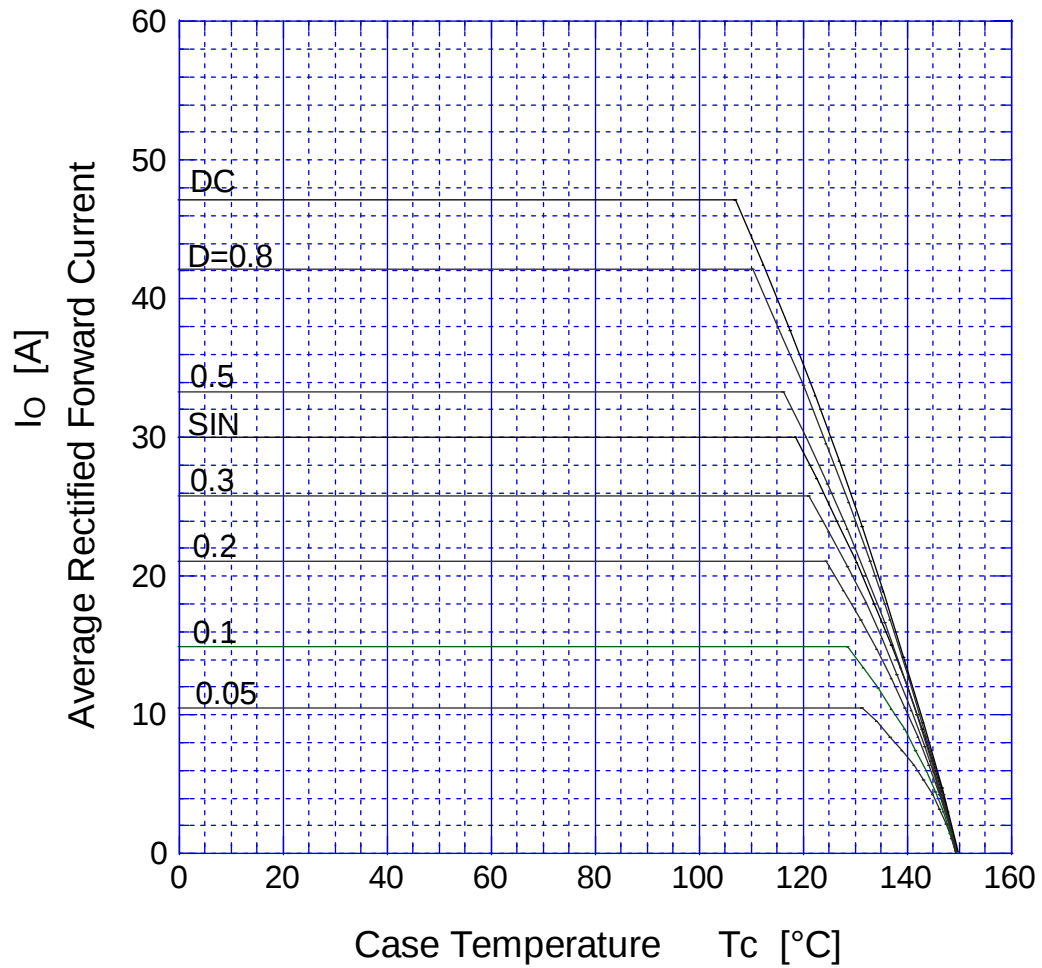


$T_j = 150^\circ\text{C}$

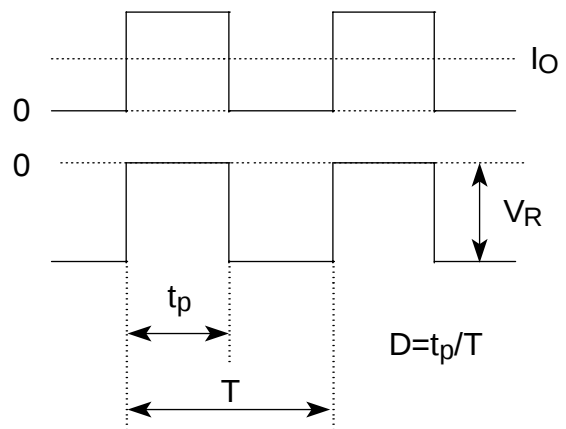


DF30JC4

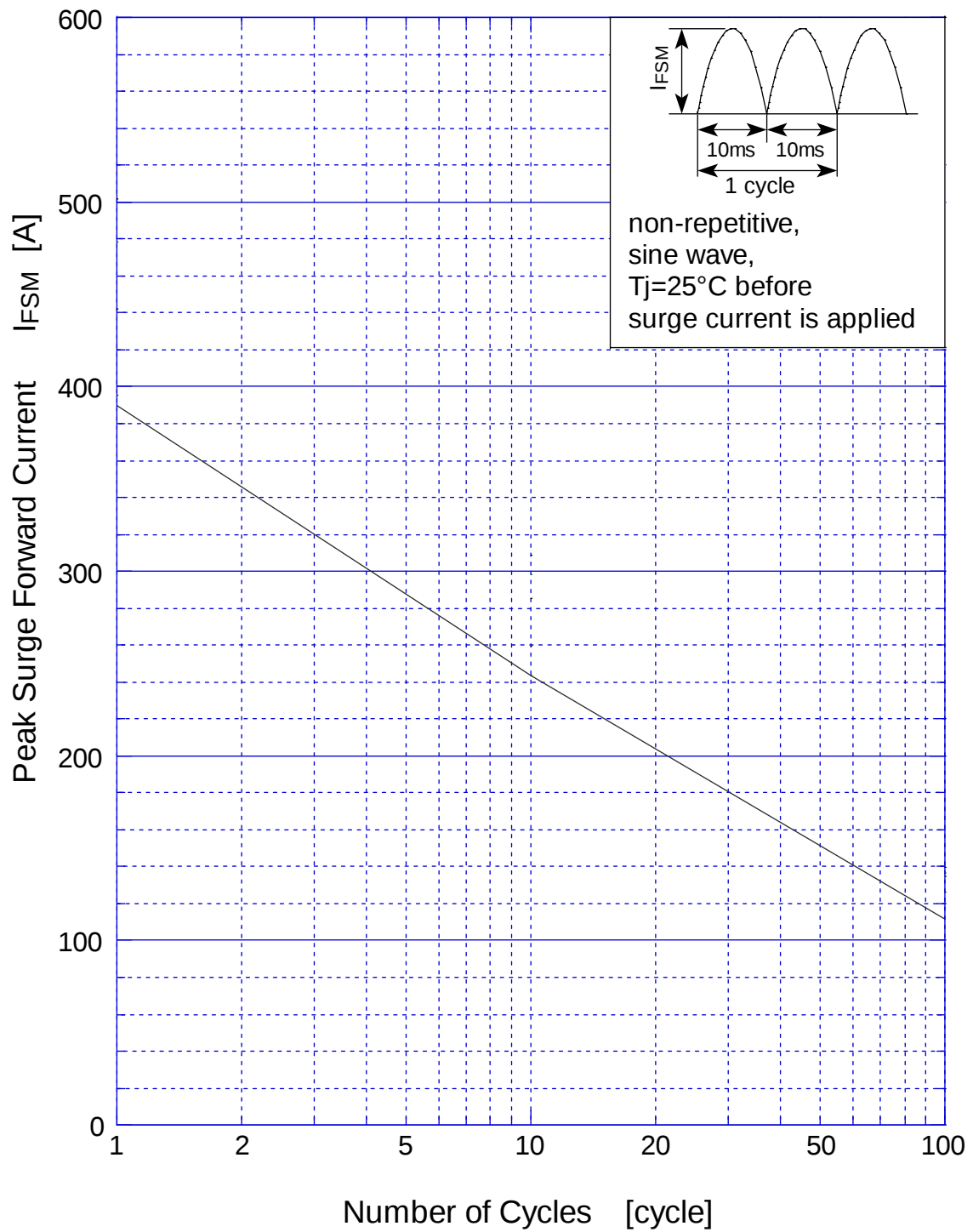
Derating Curve



$V_R = 20V$



DF30JC4 Peak Surge Forward Capability



DF30JC4 Junction Capacitance

