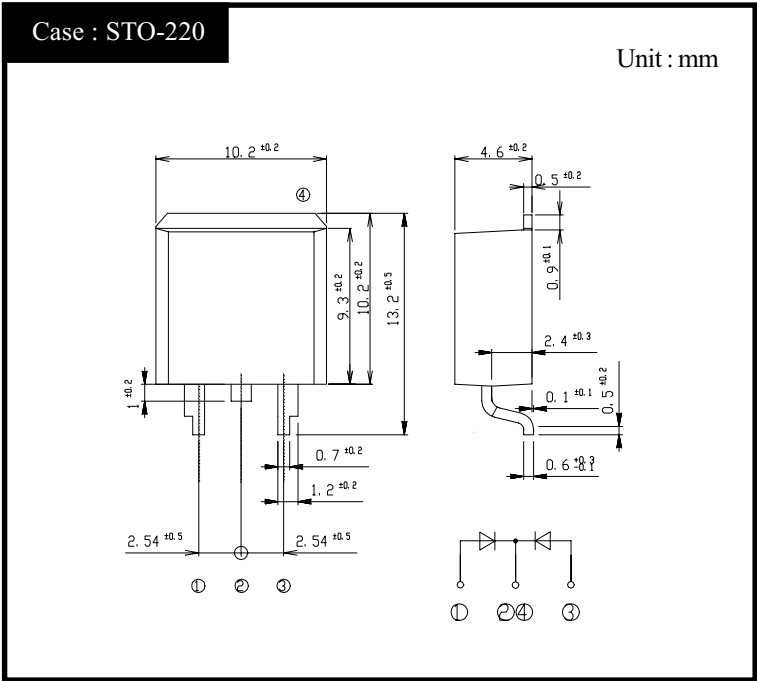


DF10SC6

60V 10A

OUTLINE DIMENSIONS



RATINGS

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

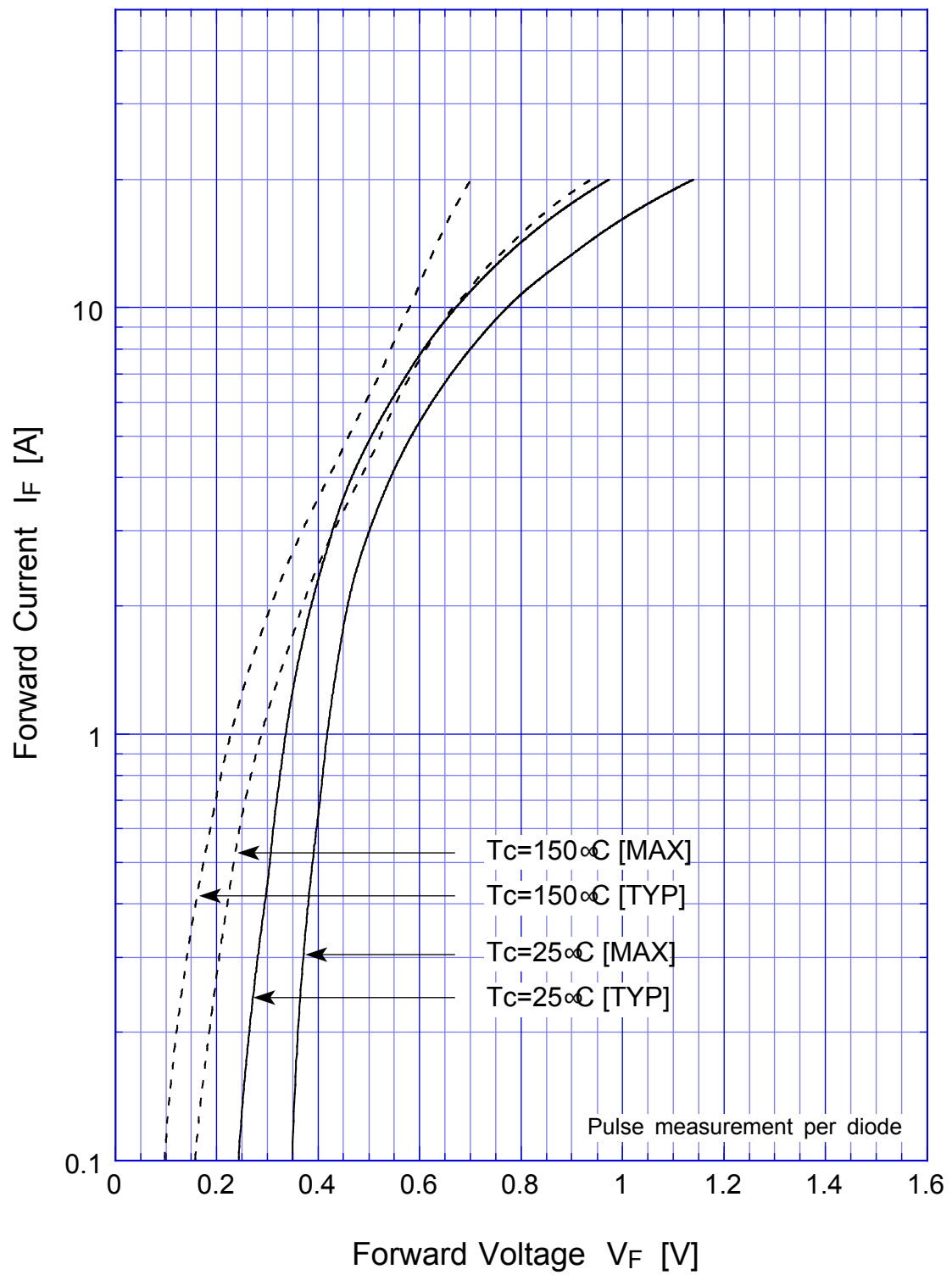
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-55~150	°C
Operating Junction Temperature	Tj		150	°C
Peak Reverse Voltage	VRM		60	V
Repetitive Peak Surge Reverse Voltage	VRRSM	Pulse width 0.5ms, duty 1/40	65	V
Average Rectified Forward Current	IO	50Hz sine wave, R-load, Rating for each diode Io/2, Tc=132°C	10	A
Peak Surge Forward Current	IFSM	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C	150	A
Repetitive Peak Surge Reverse Power	PRRSM	Pulse width 10 μ s, Rating of per diode, Tj=25°C	330	W

●Electrical Characteristics (If not specified Tc=25°C)

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	VF	IF=5A, Pulse measurement, Rating of per diode	Max.0.58	V
Reverse Current	IR	VR=VRM, Pulse measurement, Rating of per diode	Max.4.5	mA
Junction Capacitance	Cj	f=1MHz, VR=10V, Rating of per diode	Typ.260	pF
Thermal Resistance	θ jc	junction to case	Max.2.0	°C/W

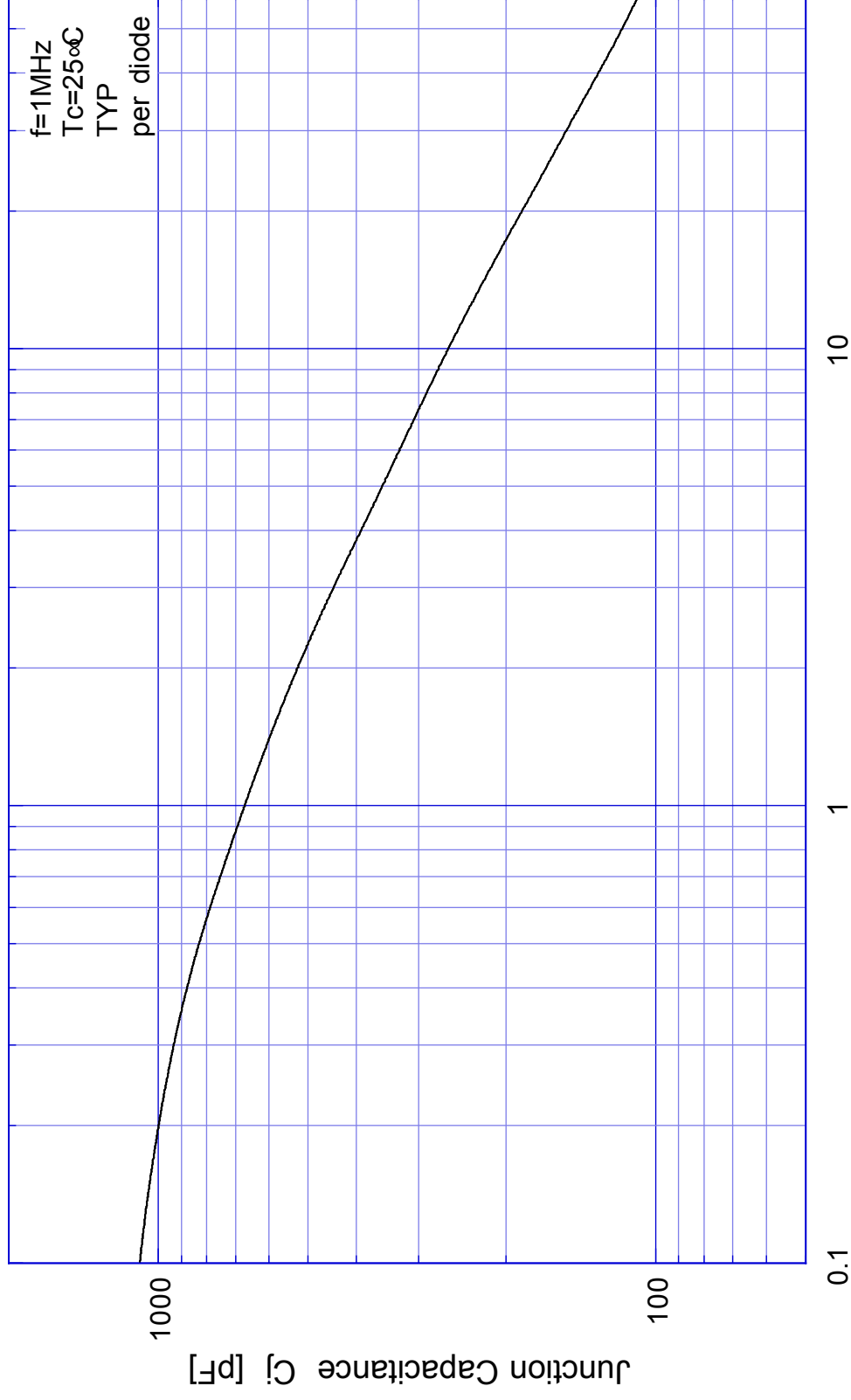
DF10SC6

Forward Voltage



DF10SC6

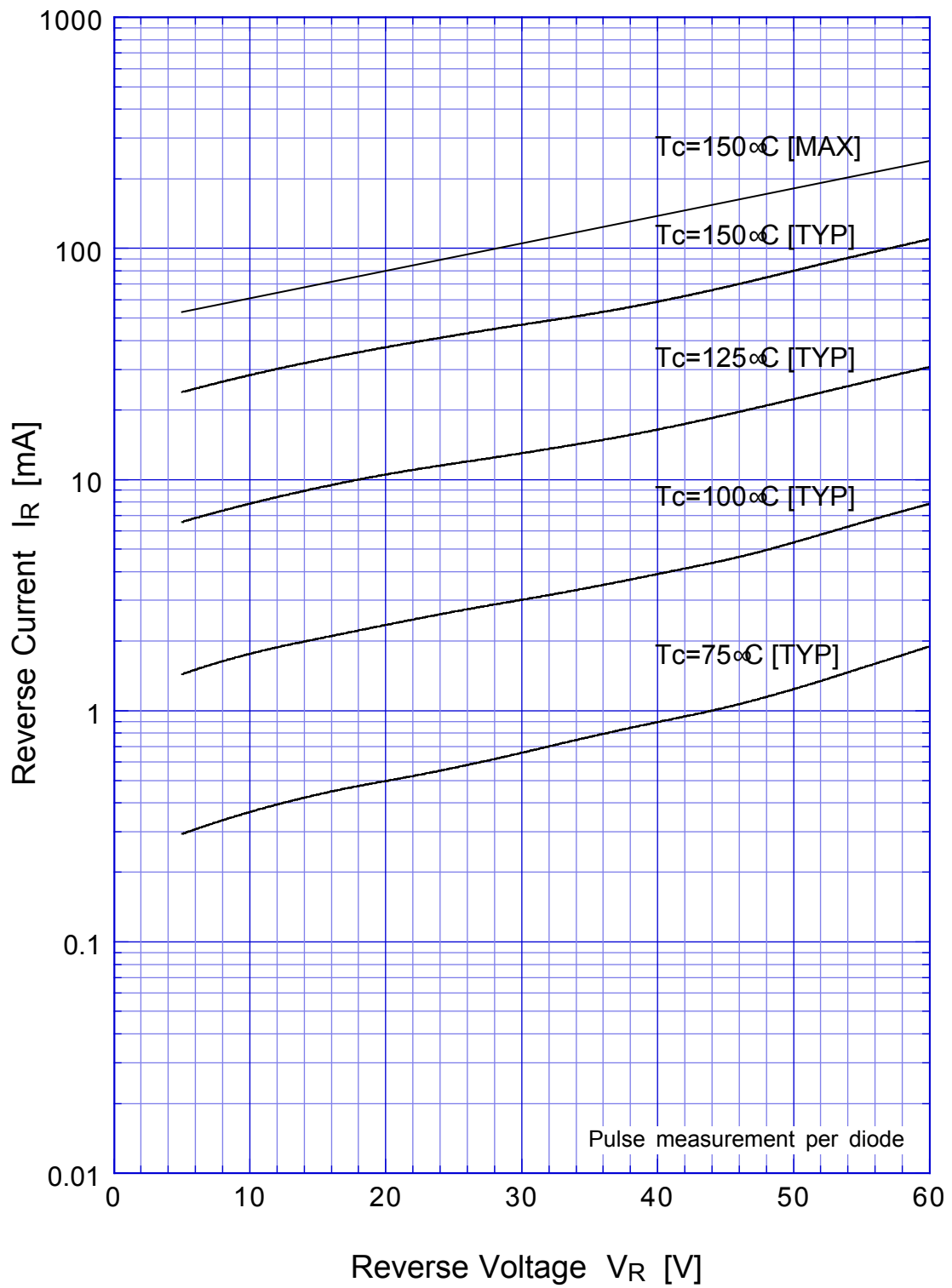
Junction Capacitance



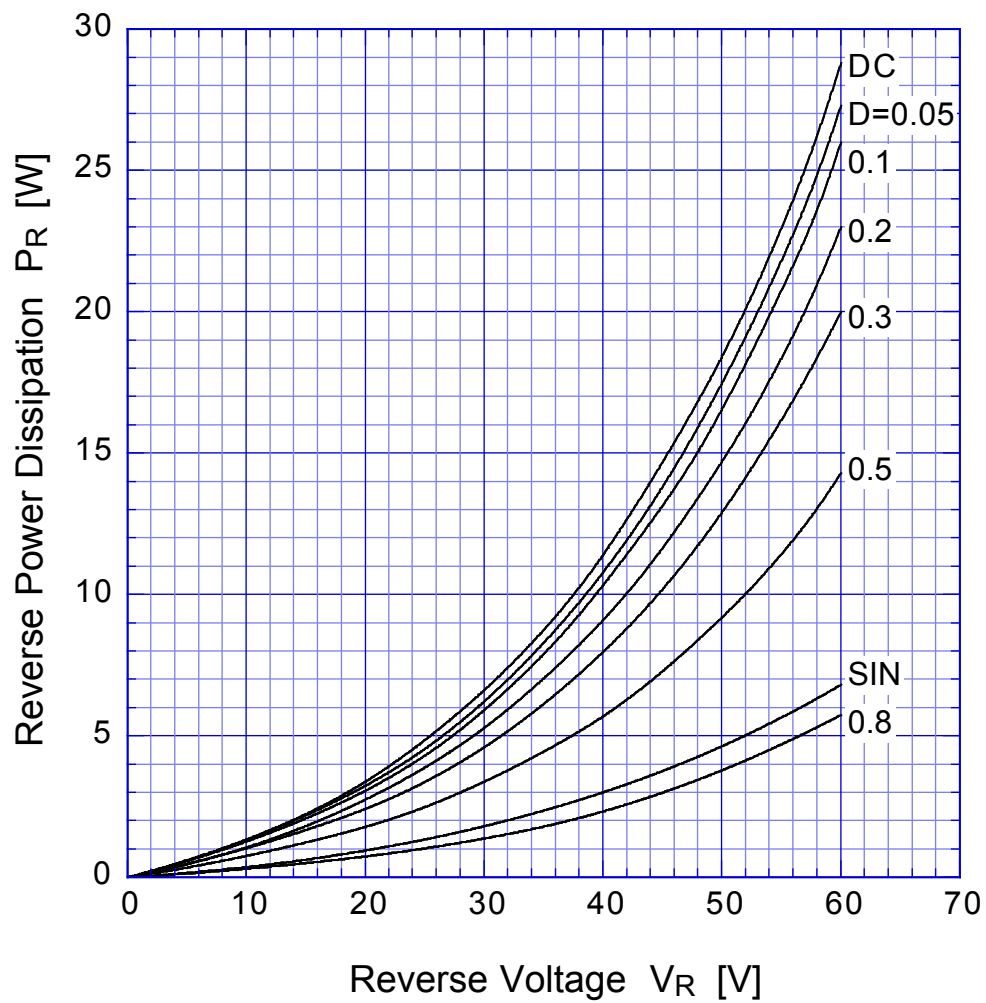
Reverse Voltage V_R [V]

DF10SC6

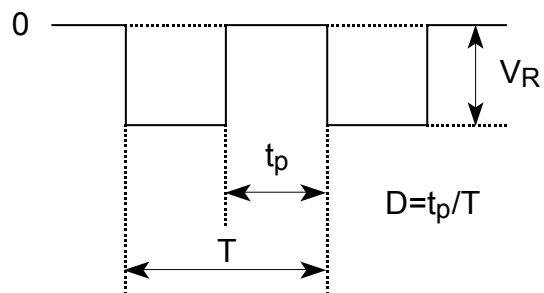
Reverse Current



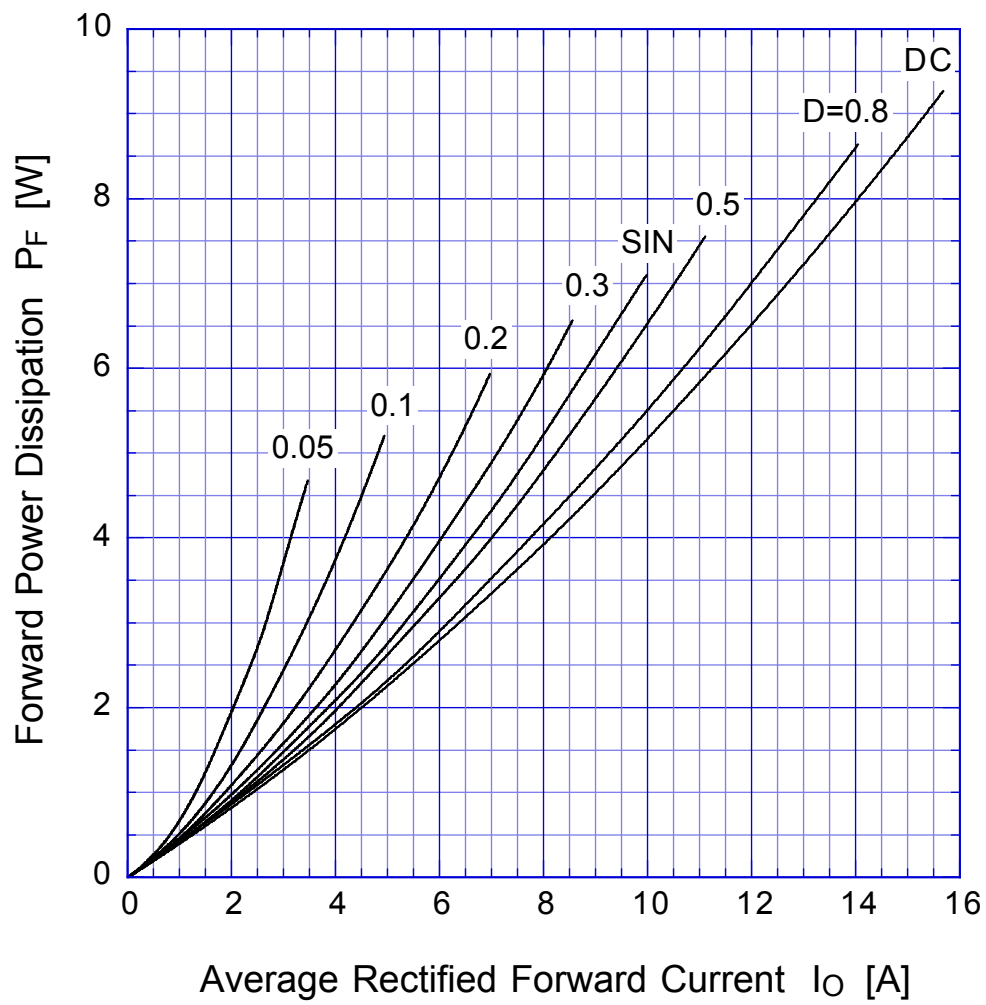
DF10SC6 Reverse Power Dissipation



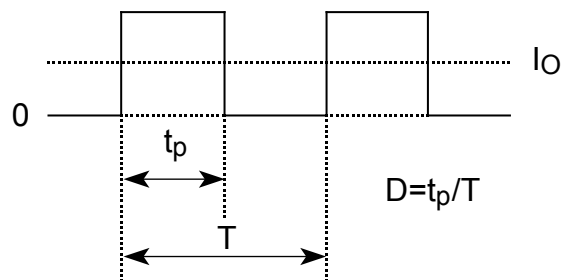
$T_j = 150^\circ\text{C}$



DF10SC6 Forward Power Dissipation

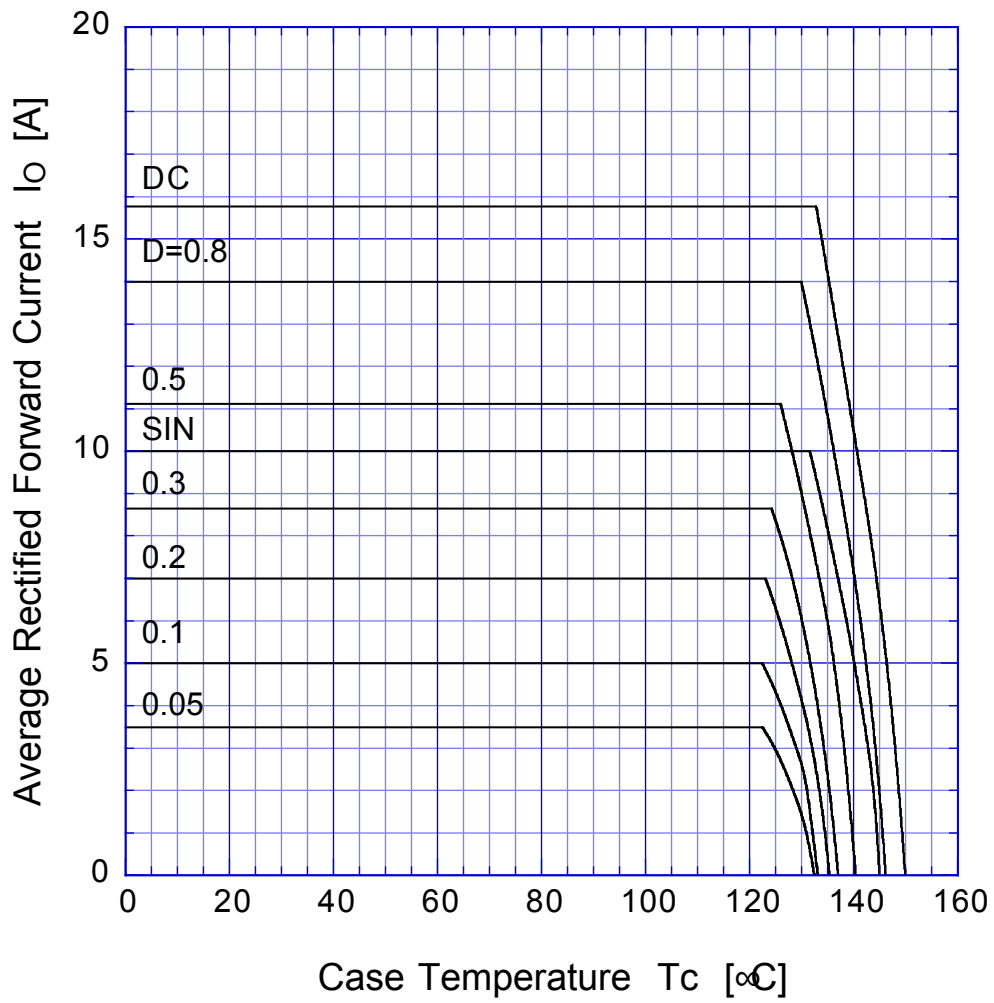


$T_j = 150^\circ\text{C}$

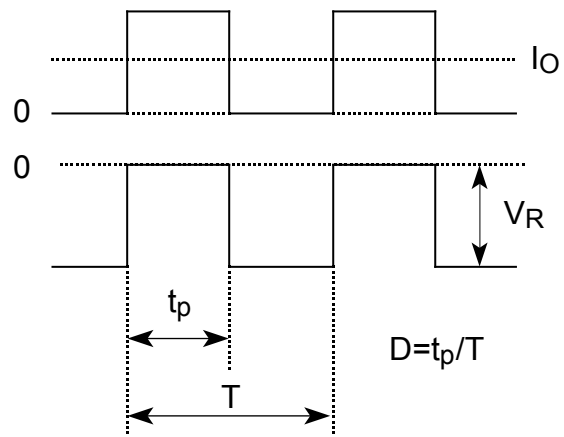


DF10SC6

Derating Curve

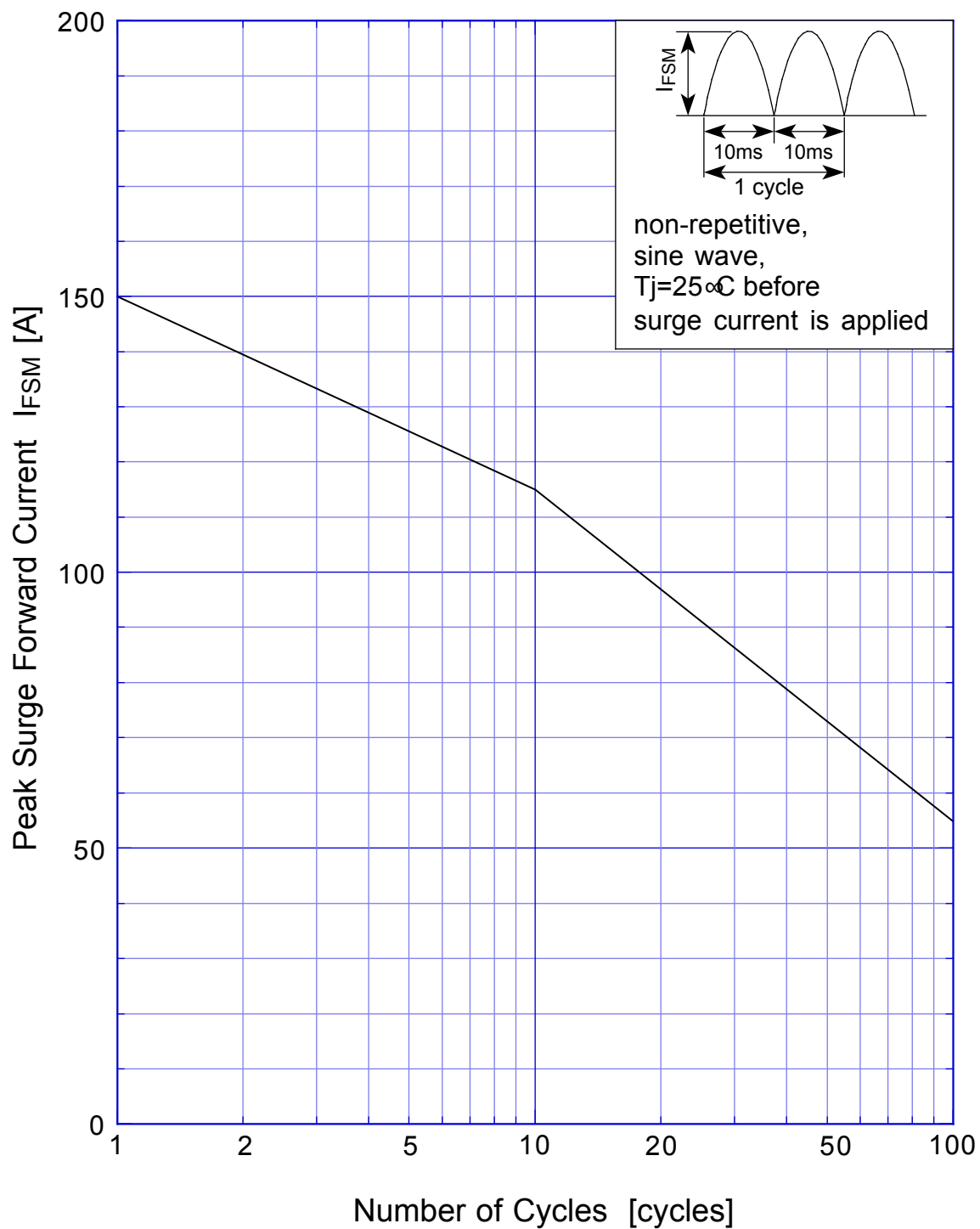


$V_R = 30V$



DF10SC6

Peak Surge Forward Capability



SBD Repetitive Surge Reverse Power Derating Curve

