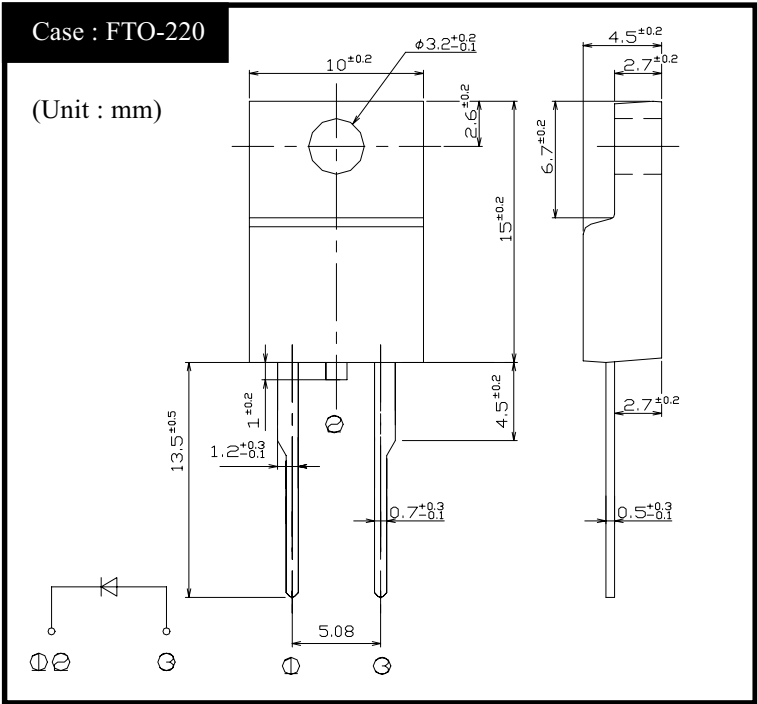


SF20H1R5

15V 20A

OUTLINE DIMENSIONS



RATINGS

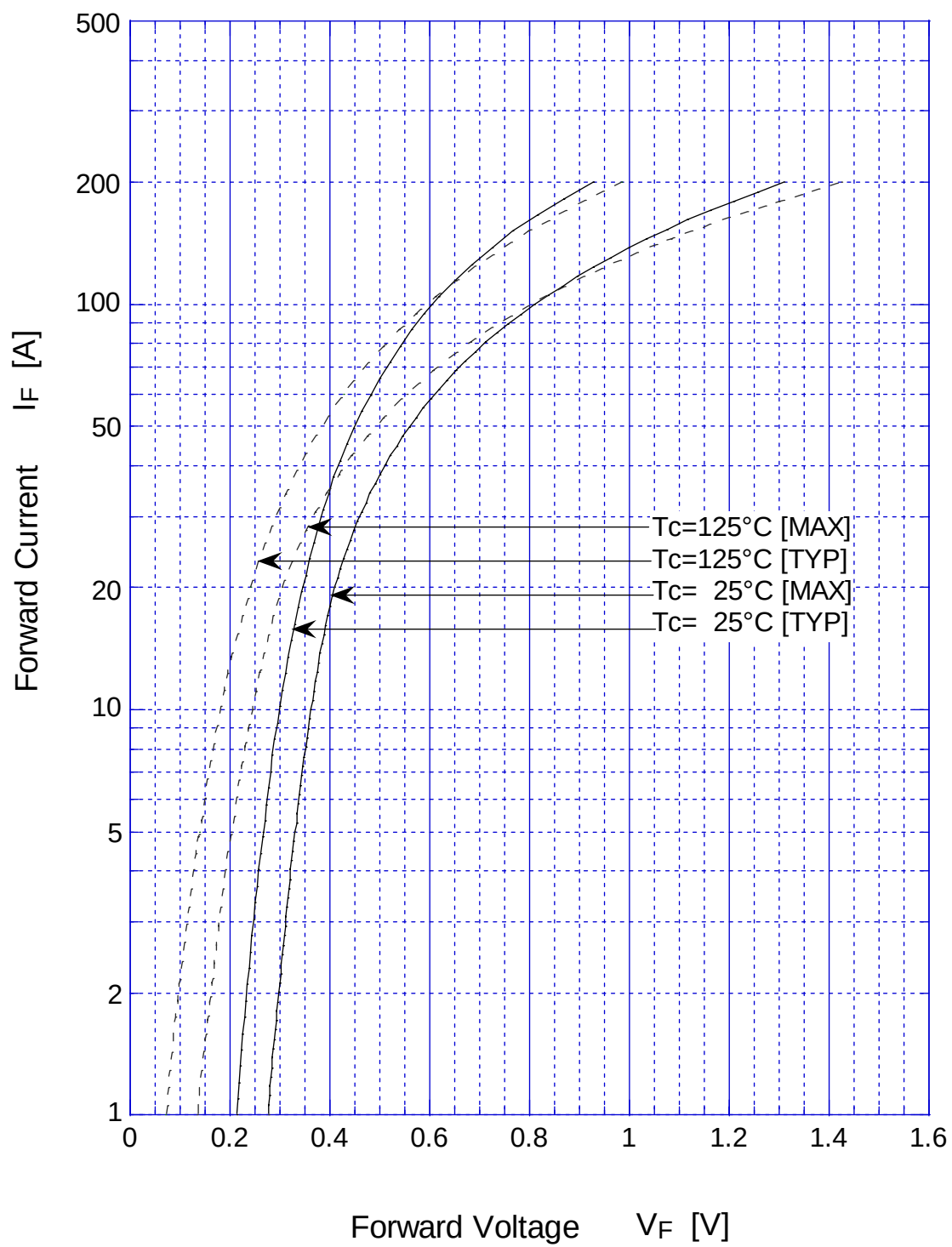
●Absolute Maximum Ratings (If not specified Tc=25°C)

Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-55~125	°C
Operating Junction Temperature	Tj		125	°C
Maximum Reverse Voltage	VRM		15	V
Average Rectified Forward Current	Io	50Hz sine wave, R-load, Tc=97°C	20	A
Peak Surge Forward Current	IFSM	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C	250	A
Dielectric Strength	Vdis	Terminals to case, AC 1 minute	2	kV
Mounting Torque	TOR	(Recommended torque : 0.3N·m)	0.5	N·m

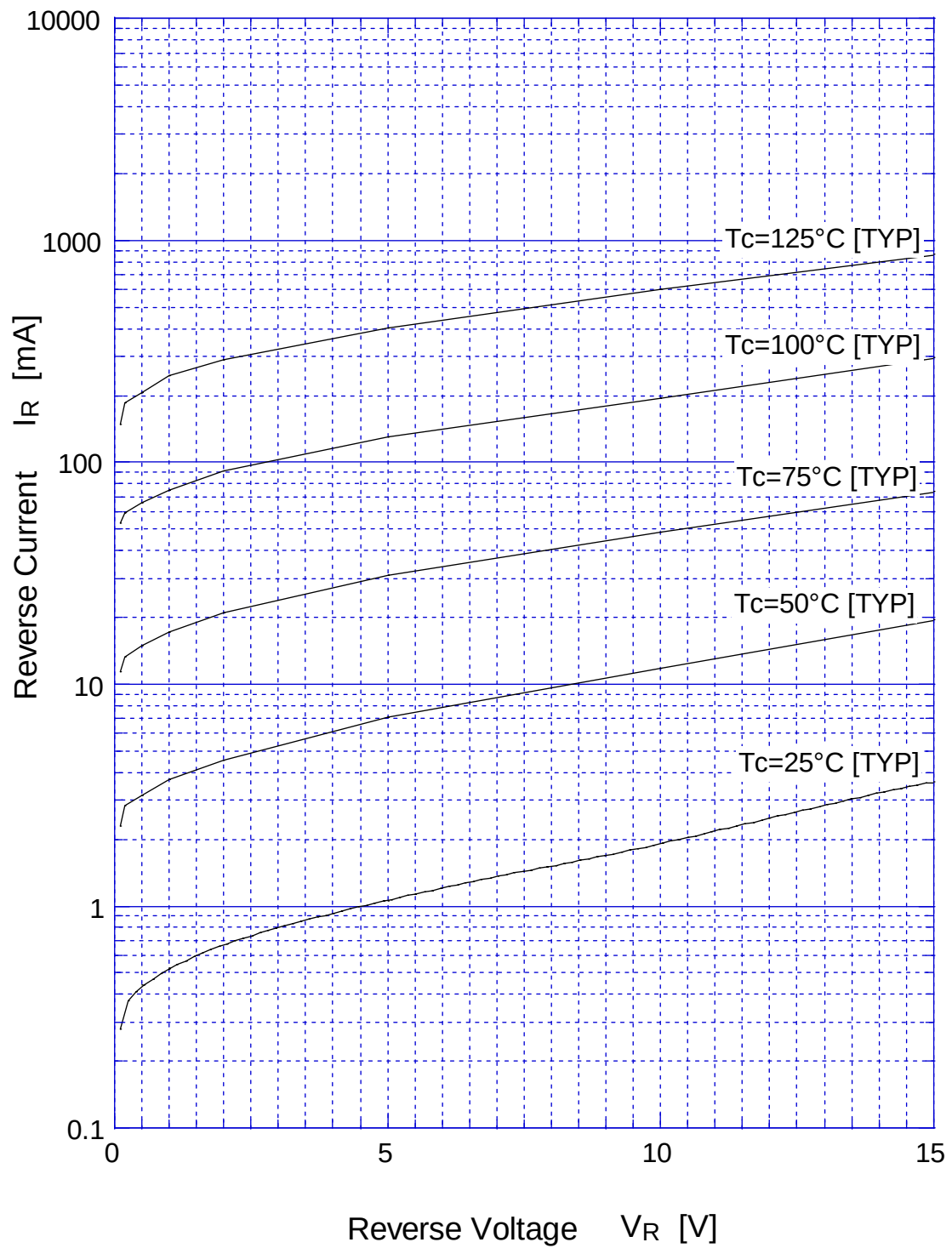
●Electrical Characteristics (If not specified Tc=25°C)

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	VF	IF=20A, Pulse measurement	Max 0.41	V
Reverse Current	IR	VR=VRM, Pulse measurement	Max 10	mA
Junction Capacitance	Cj	f=1MHz, VR=10V	Typ 960	pF
Thermal Resistance	θ jc	junction to case	Max 2.0	°C/W

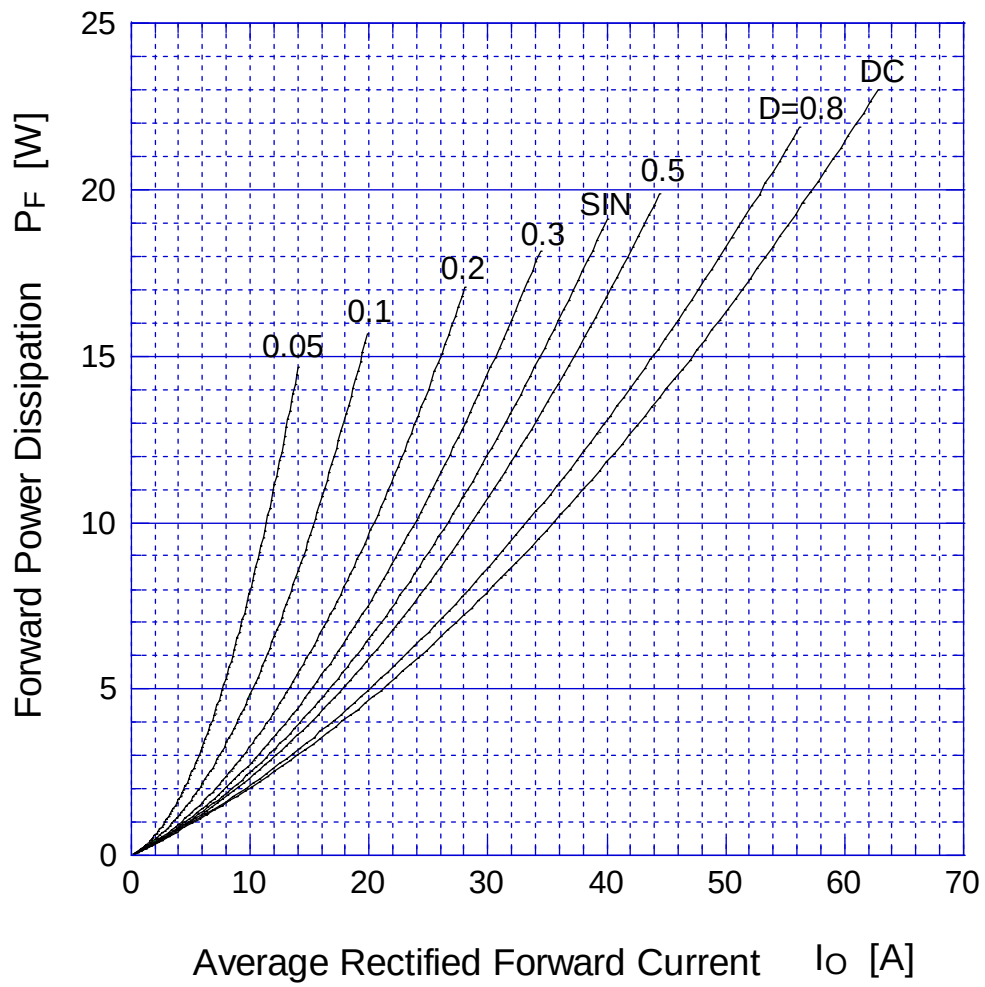
SF20H1R5 Forward Voltage



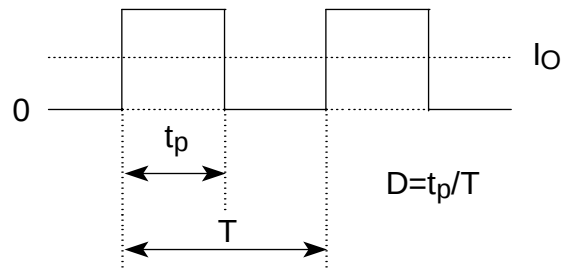
SF20H1R5 Reverse Current



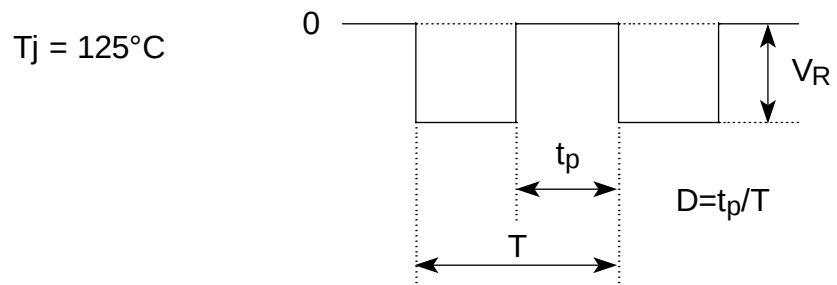
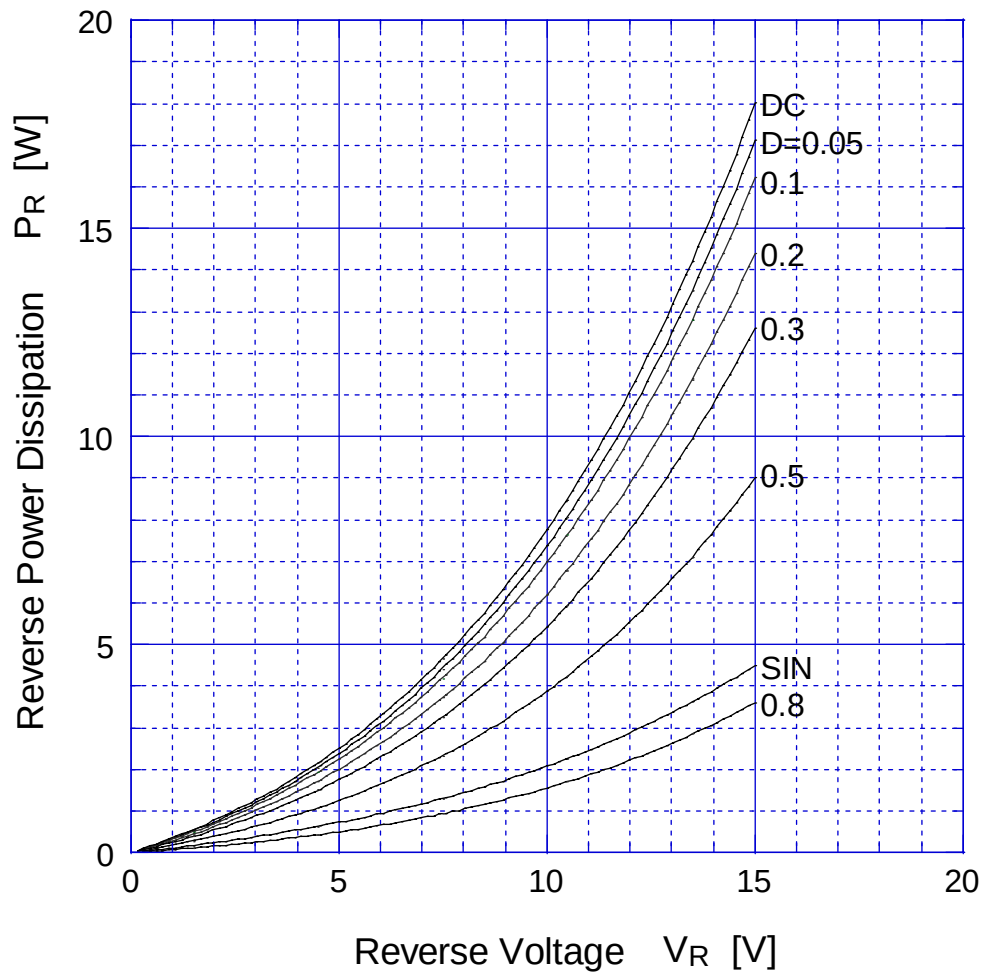
SF20H1R5 Forward Power Dissipation



$T_j = 125^\circ\text{C}$

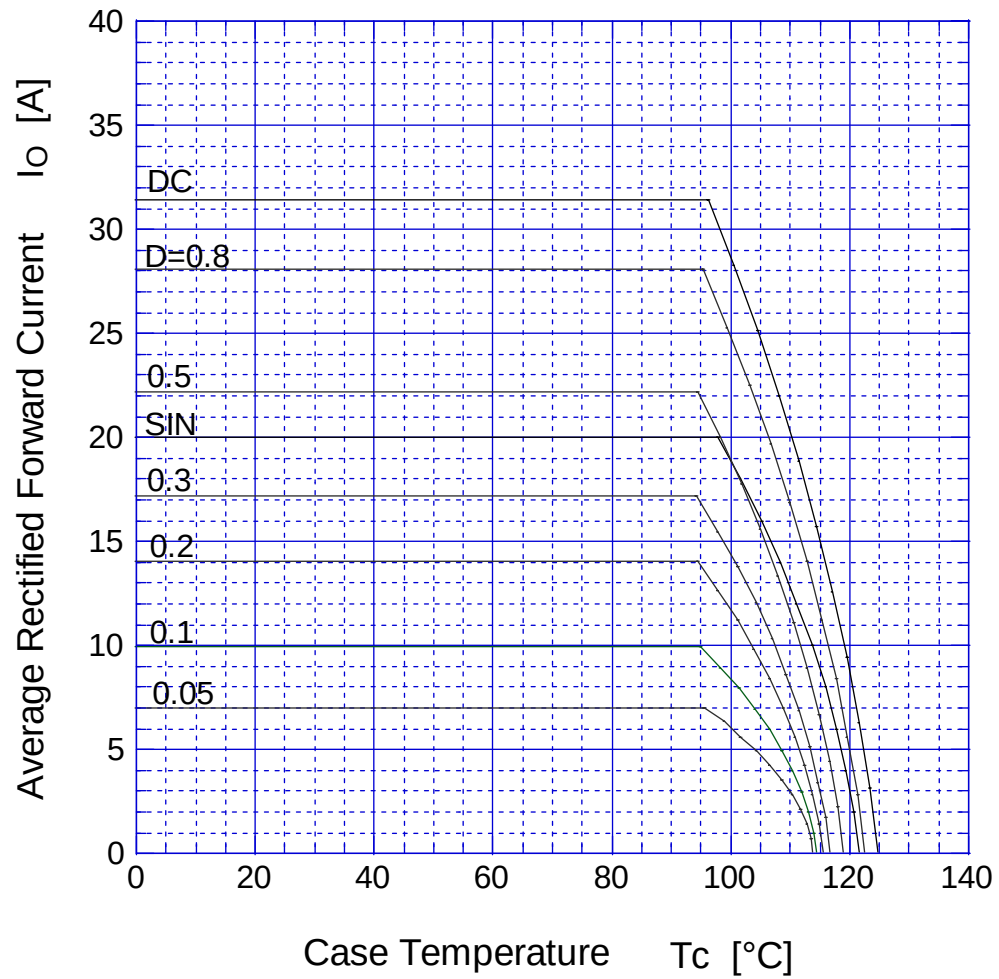


SF20H1R5 Reverse Power Dissipation

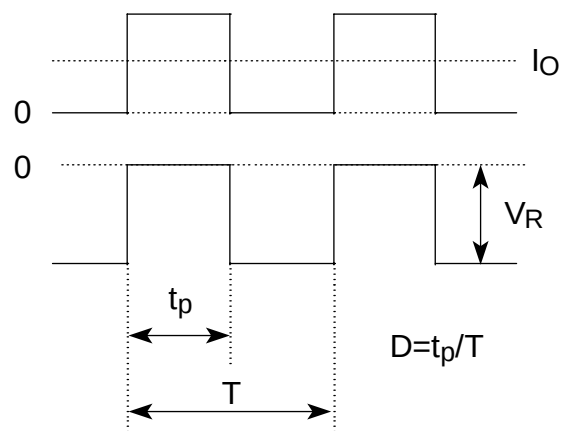


SF20H1R5

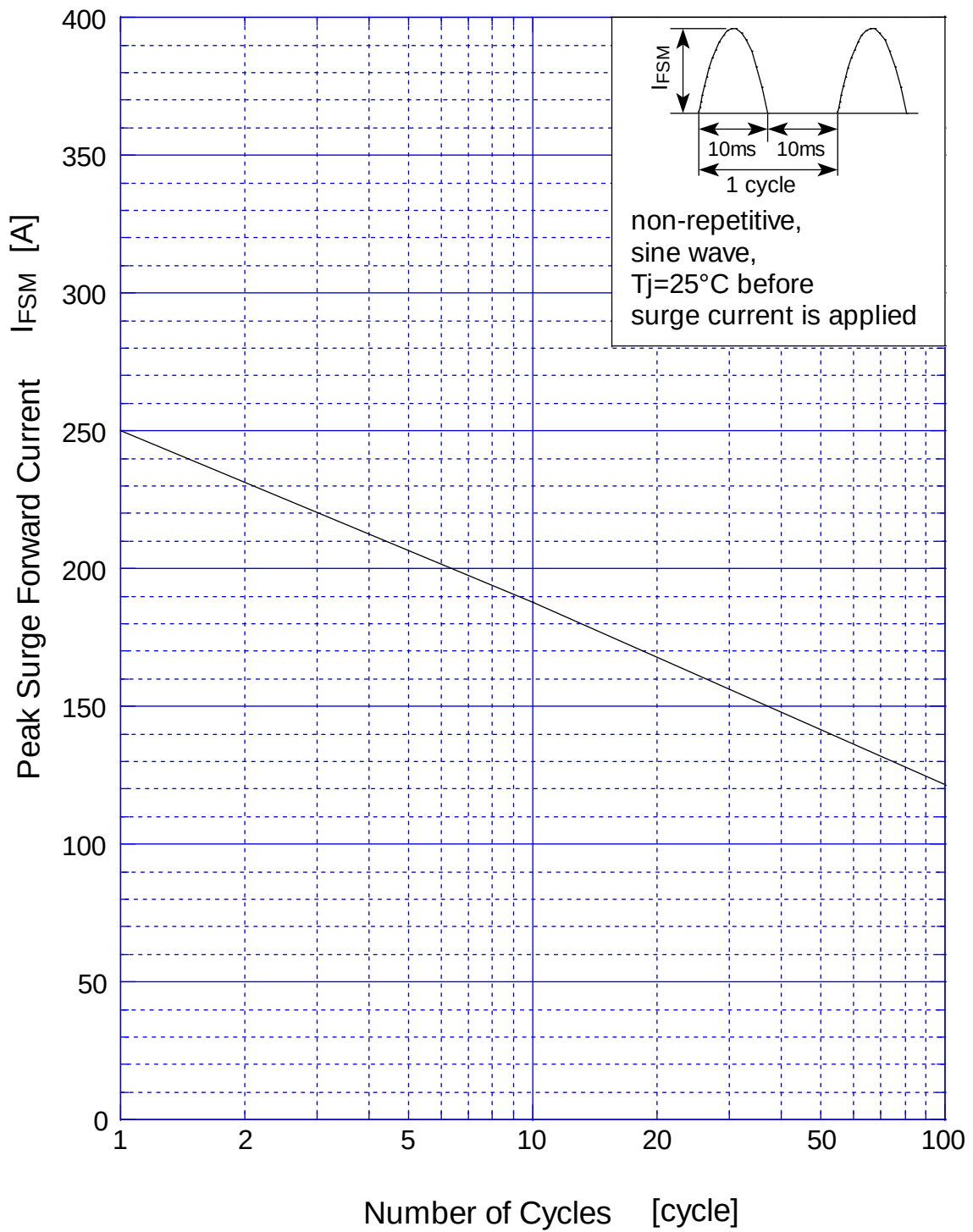
Derating Curve



$V_R = 7.5V$



SF20H1R5 Peak Surge Forward Capability



SF20H1R5 Junction Capacitance

