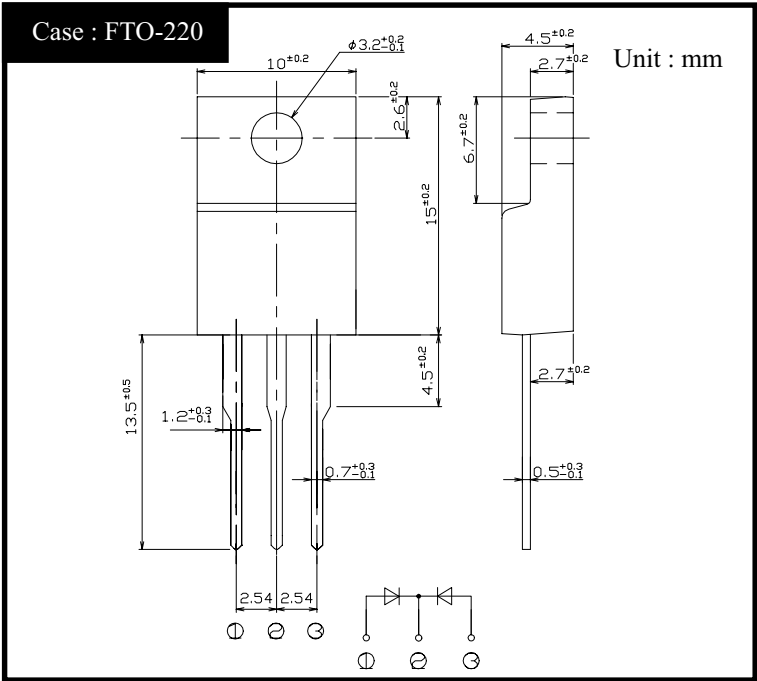


SF20LC30

300V 20A

OUTLINE DIMENSIONS



RATINGS

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

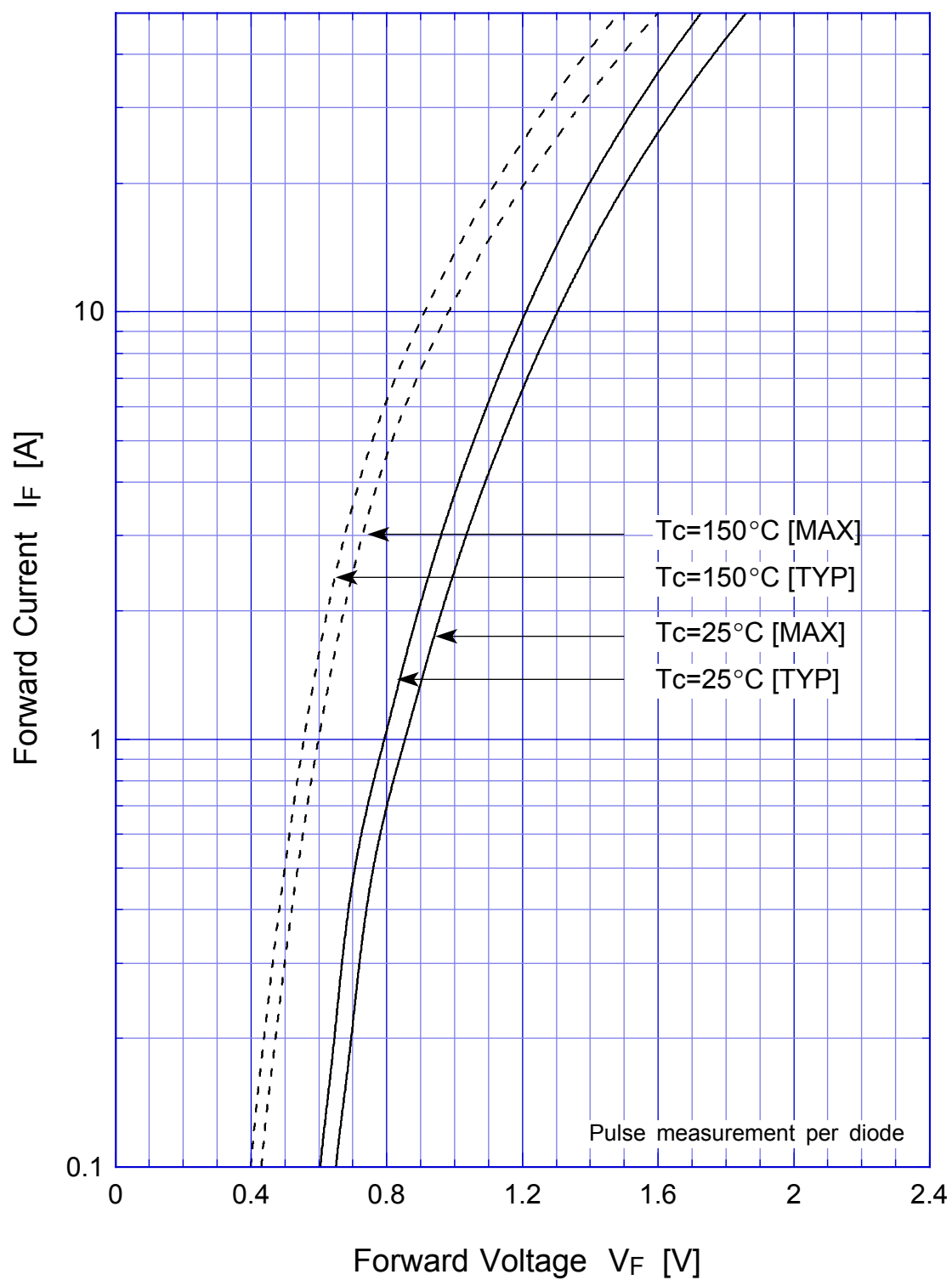
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-55~150	°C
Operating Junction Temperature	Tj		150	°C
Maximum Reverse Voltage	VRM		300	V
Average Rectified Forward Current	Io	50Hz sine wave, R-load, Rating for each diode Io/2, Tc=112°C	20	A
Peak Surge Forward Current	IFSM	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C	180	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)

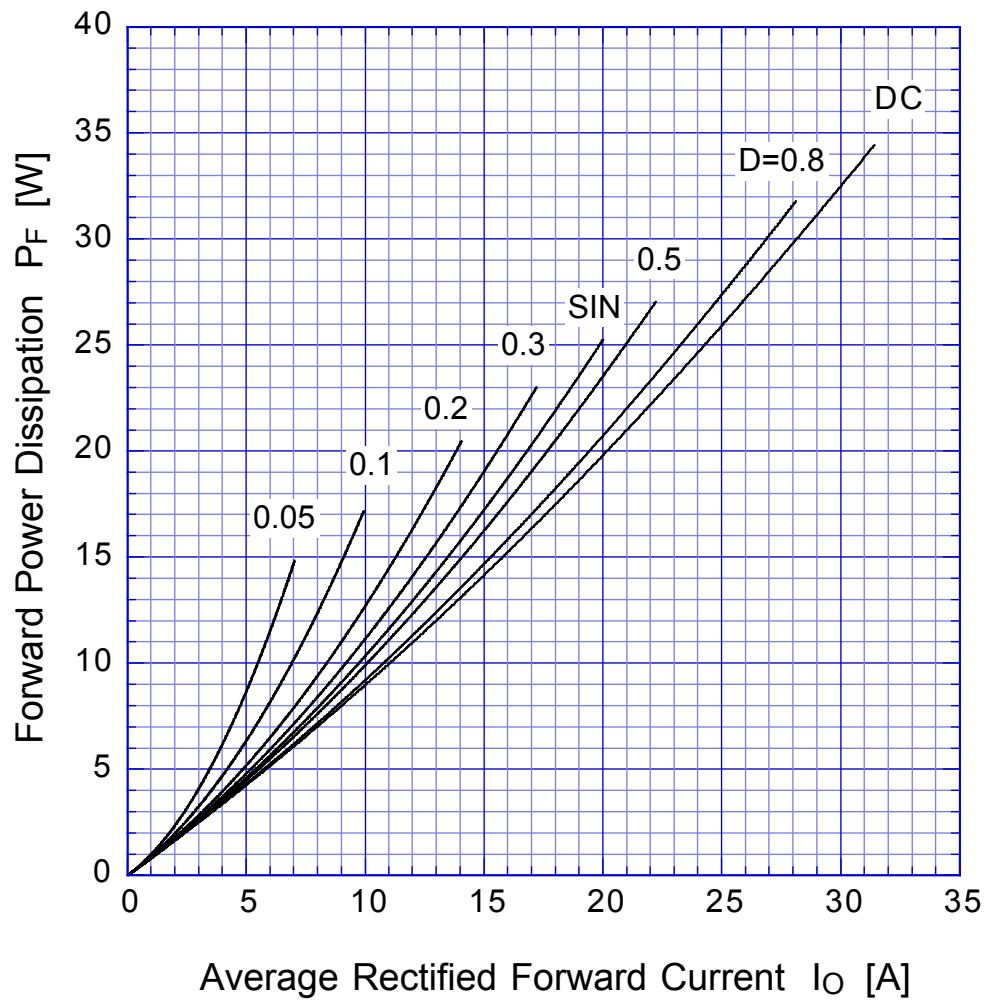
Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	VF	IF=10A, Pulse measurement, Rating of per diode	Max.1.3	V
Reverse Current	IR	VR=VRM, Pulse measurement, Rating of per diode	Max.25	μA
Reverse Recovery Time	trr	IF=0.5A, IR=1A, Rating of per diode	Max.30	ns
Total Gate Charge	CJ	f=1MHz, VR=10V, Rating of per diode	Typ.90	pF
Thermal Resistance	θjc	junction to case	Max.1.5	°C/W

SF20LC30

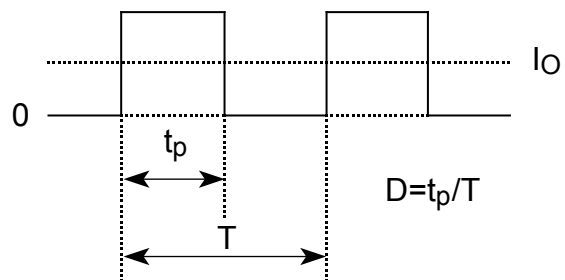
Forward Voltage



SF20LC30 Forward Power Dissipation

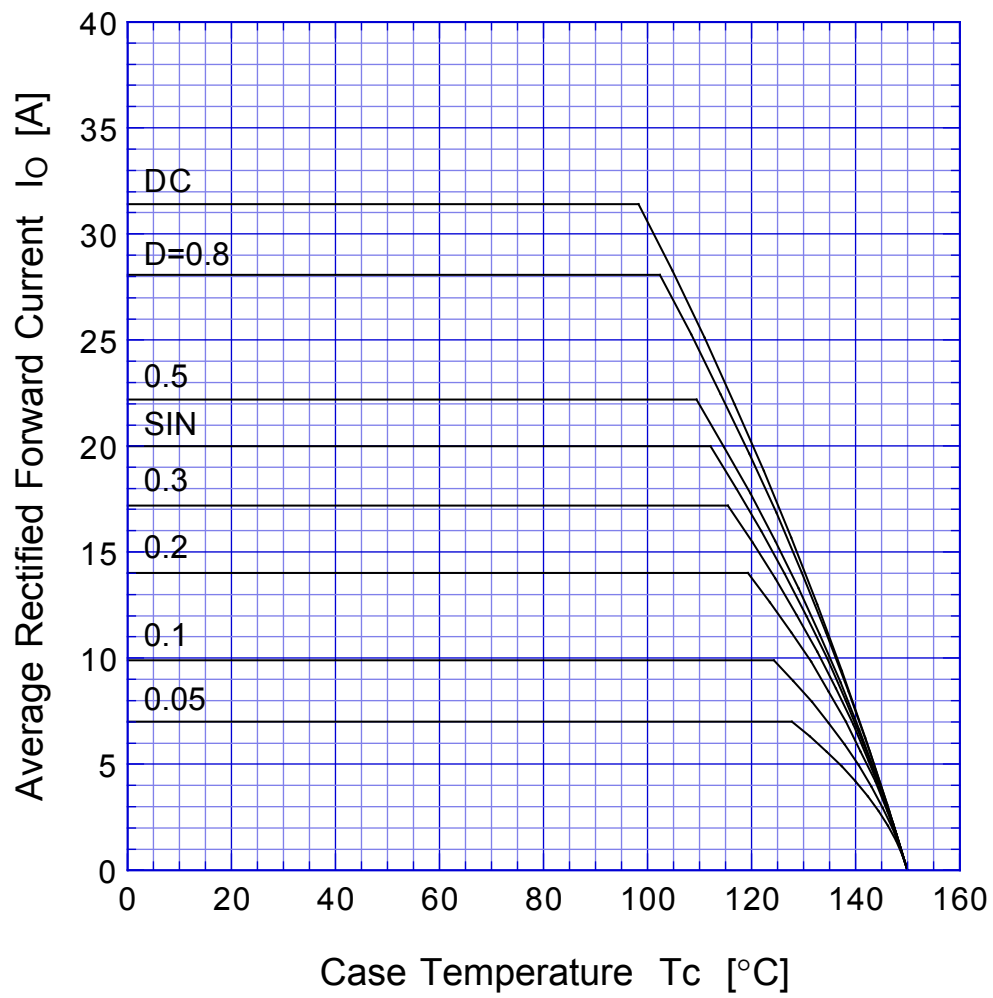


$T_j = 150^\circ\text{C}$

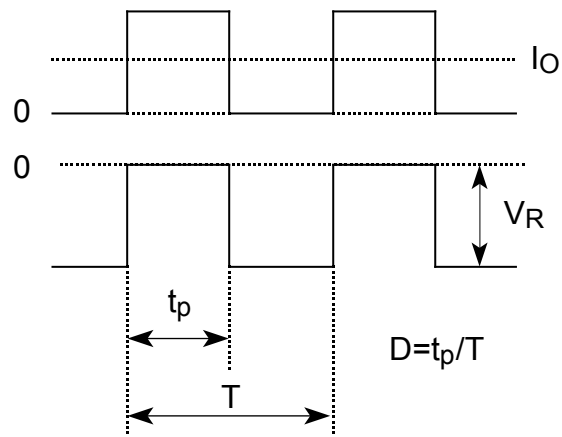


SF20LC30

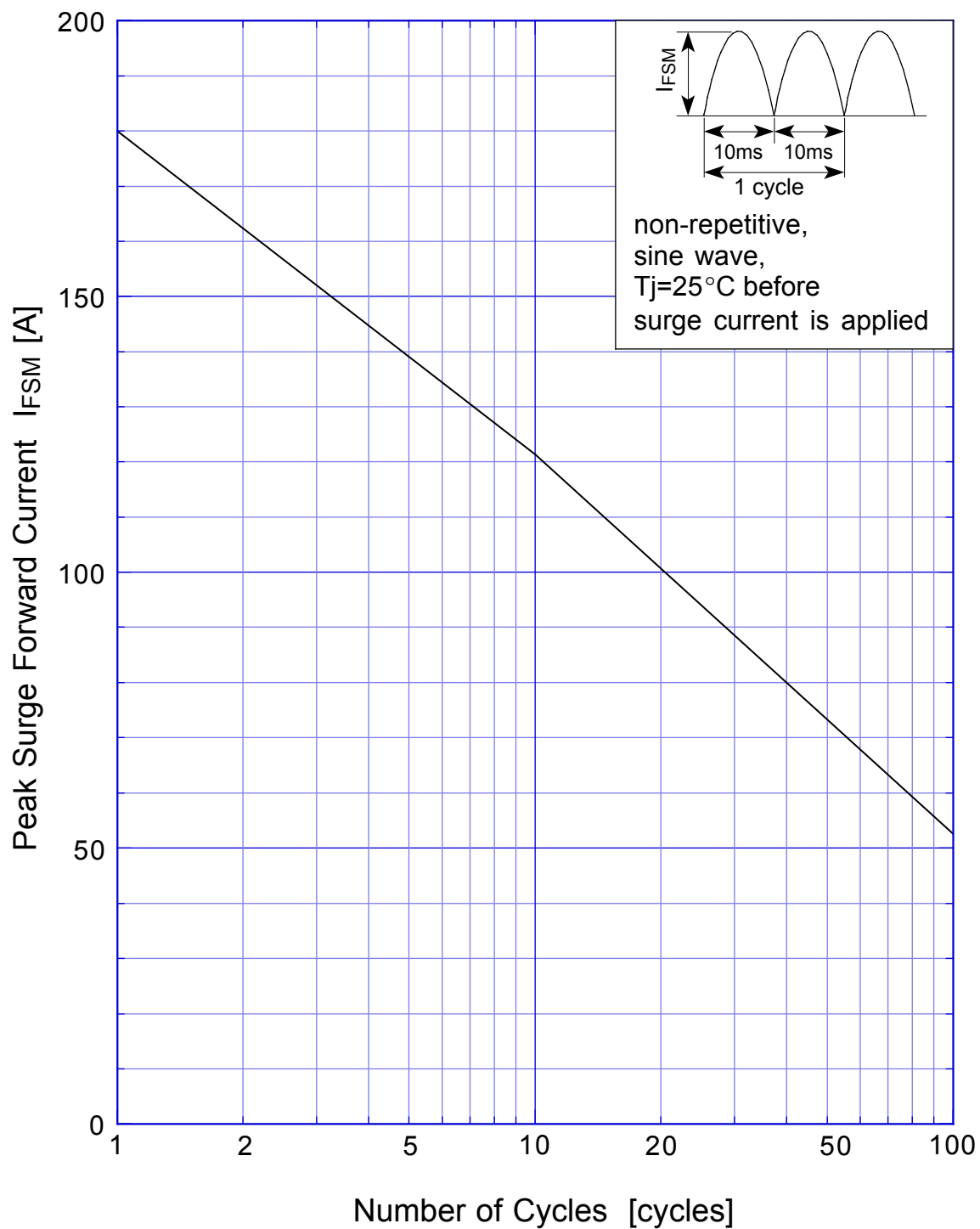
Derating Curve



$$V_R = V_{RM}$$



SF20LC30 Peak Surge Forward Capability



SF20LC30 Junction Capacitance

