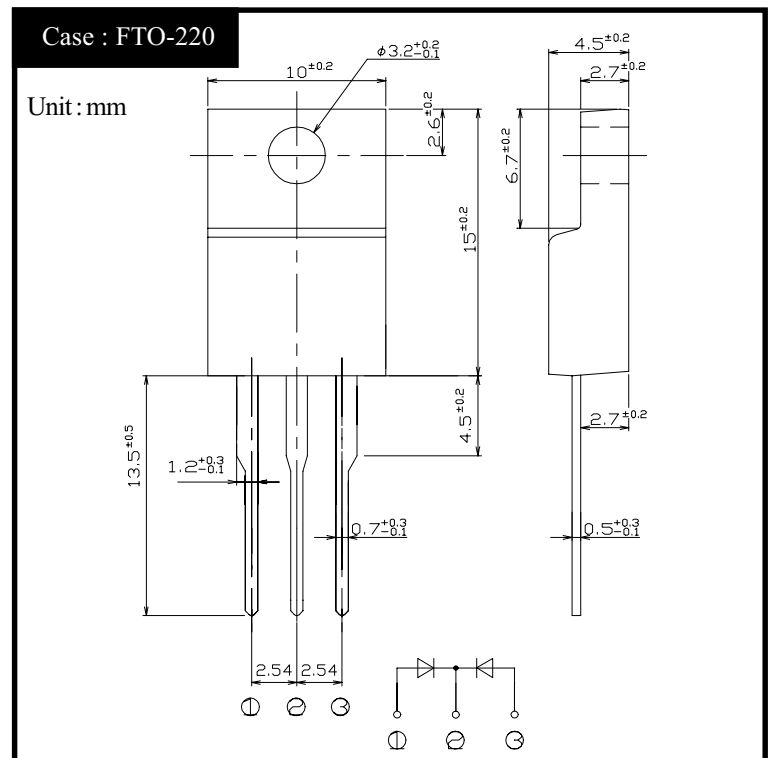


SF30JC4

40V 30A

OUTLINE DIMENSIONS



RATINGS

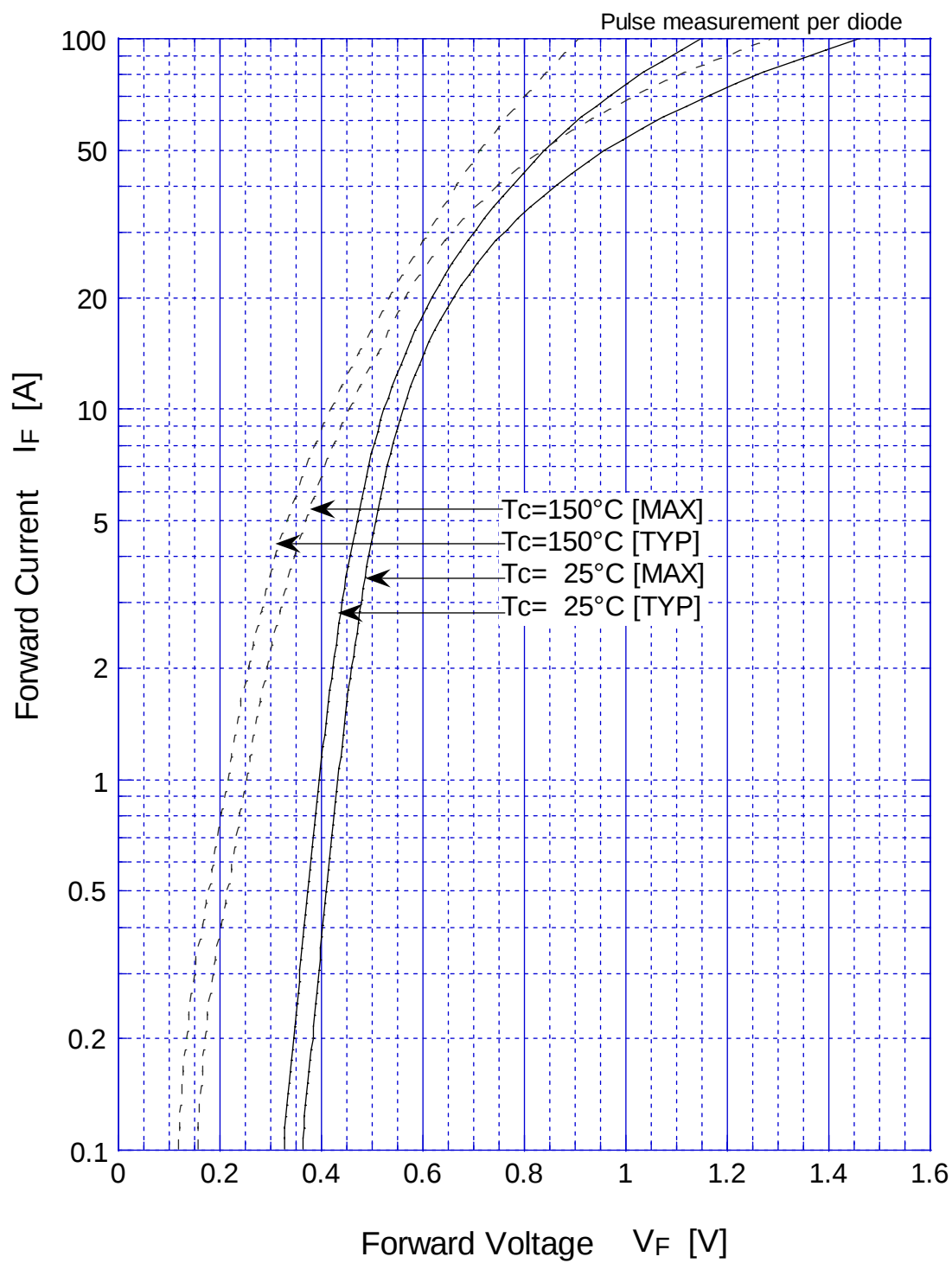
●Absolute Maximum Ratings (Unless otherwise specified, Tc=25°C)

Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-55~150	°C
Operating Junction Temperature	Tj		150	°C
Maximum Reverse Voltage	V _{RM}		40	V
Repetitive Peak Surge Reverse Voltage	V _{RRSM}	Pulse width 0.5ms, duty 1/40	45	V
Average Rectified Forward Current	I _O	50Hz sine wave, R-load, Rating for each diode I _O /2, T _c =106°C	30	A
Peak Surge Forward Current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, T _j =25°C	250	A
Dielectric Strength	V _{dis}	Terminals to case, AC 1 minute	2	kV
Mounting Torque	TOR	(Recommended torque: 0.3N·m)	0.5	N·m

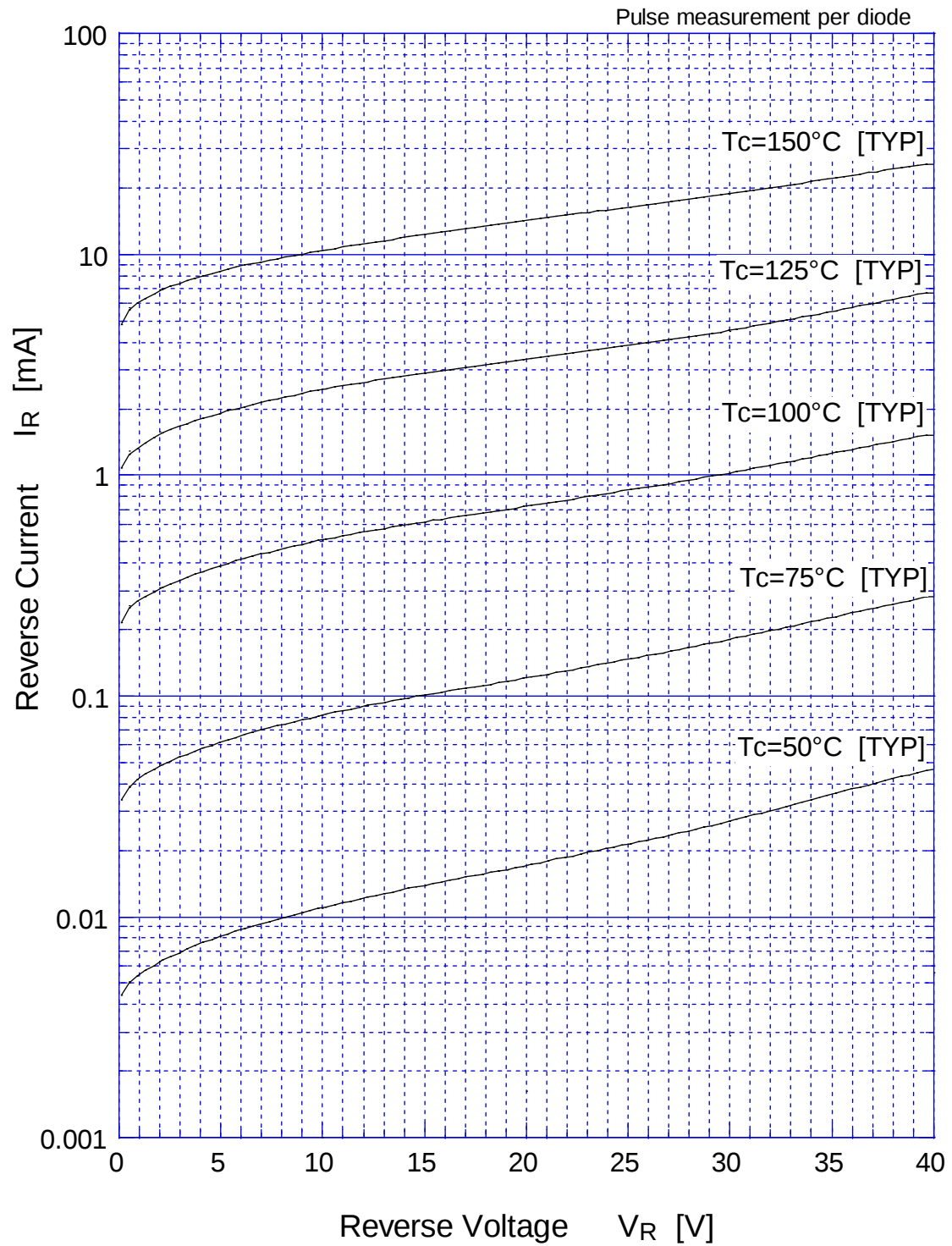
●Electrical Characteristics (Unless otherwise specified, Tc=25°C)

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V_F	$I_F=15A$, Pulse measurement, Rating of per diode	Max 0.61	V
Reverse Current	I_R	$V_R=V_{RM}$, Pulse measurement, Rating of per diode	Max 0.7	mA
Junction Capacitance	C_j	$f=1MHz$, $V_R=10V$, Rating of per diode	Typ 560	pF
Thermal Resistance	θ_{jc}	junction to case	Max 2.0	$^{\circ}C/W$

SF30JC4 Forward Voltage

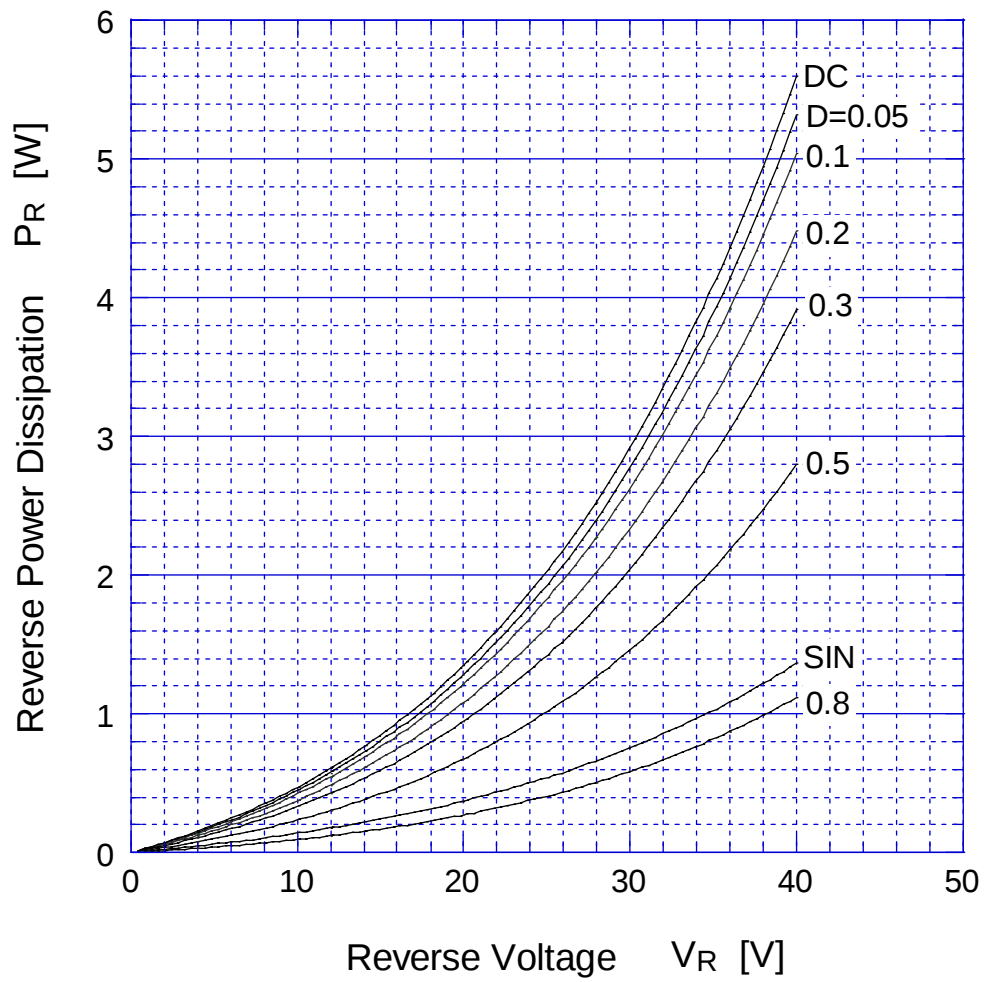


SF30JC4 Reverse Current

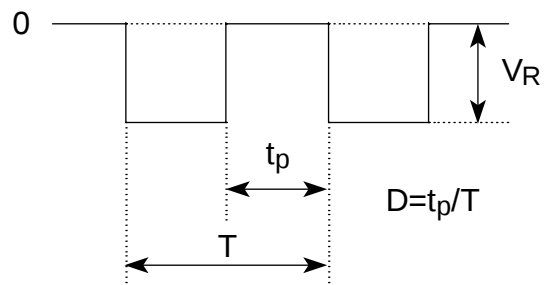


SF30JC4

Reverse Power Dissipation

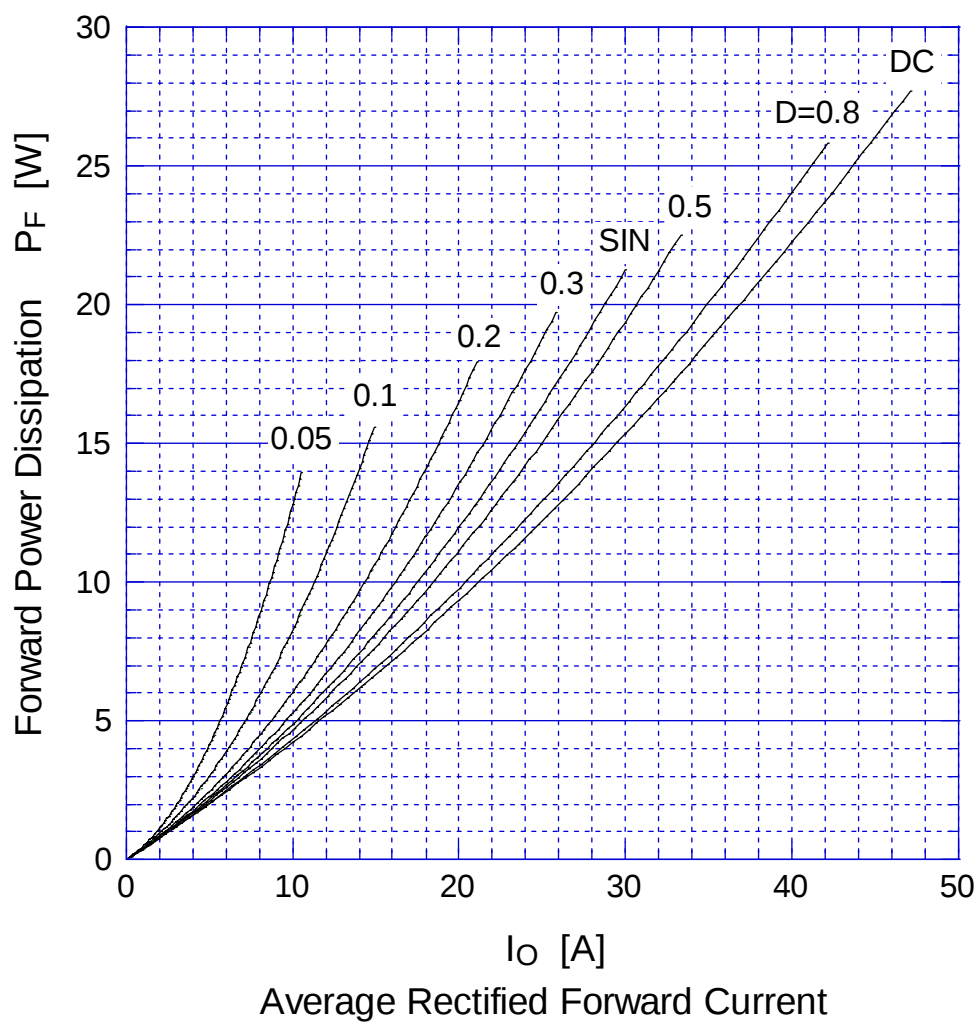


$T_j = 150^\circ\text{C}$

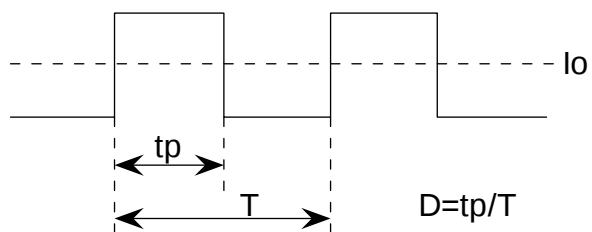


SF30JC4

Forward Power Dissipation

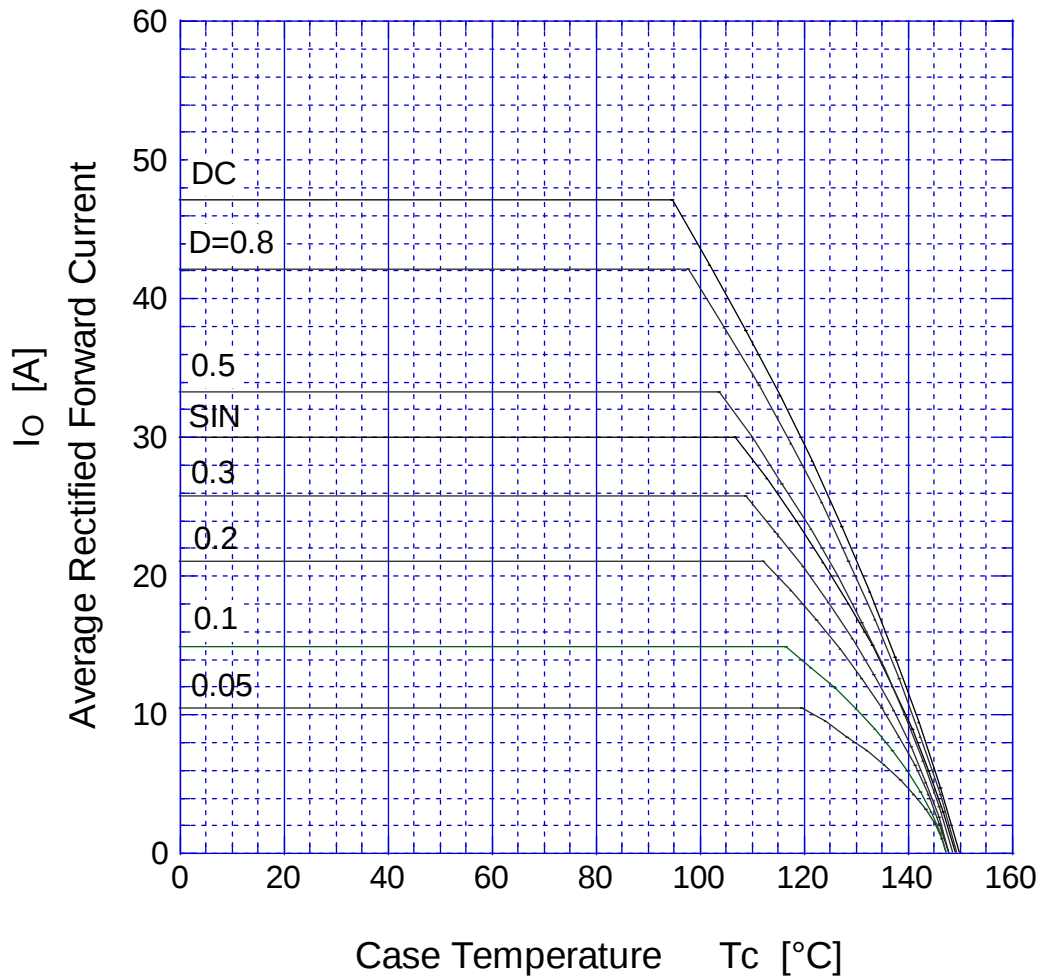


$T_j = 150^\circ\text{C}$

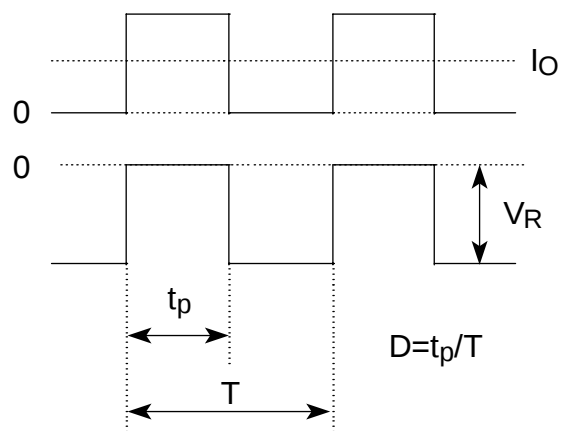


SF30JC4

Derating Curve

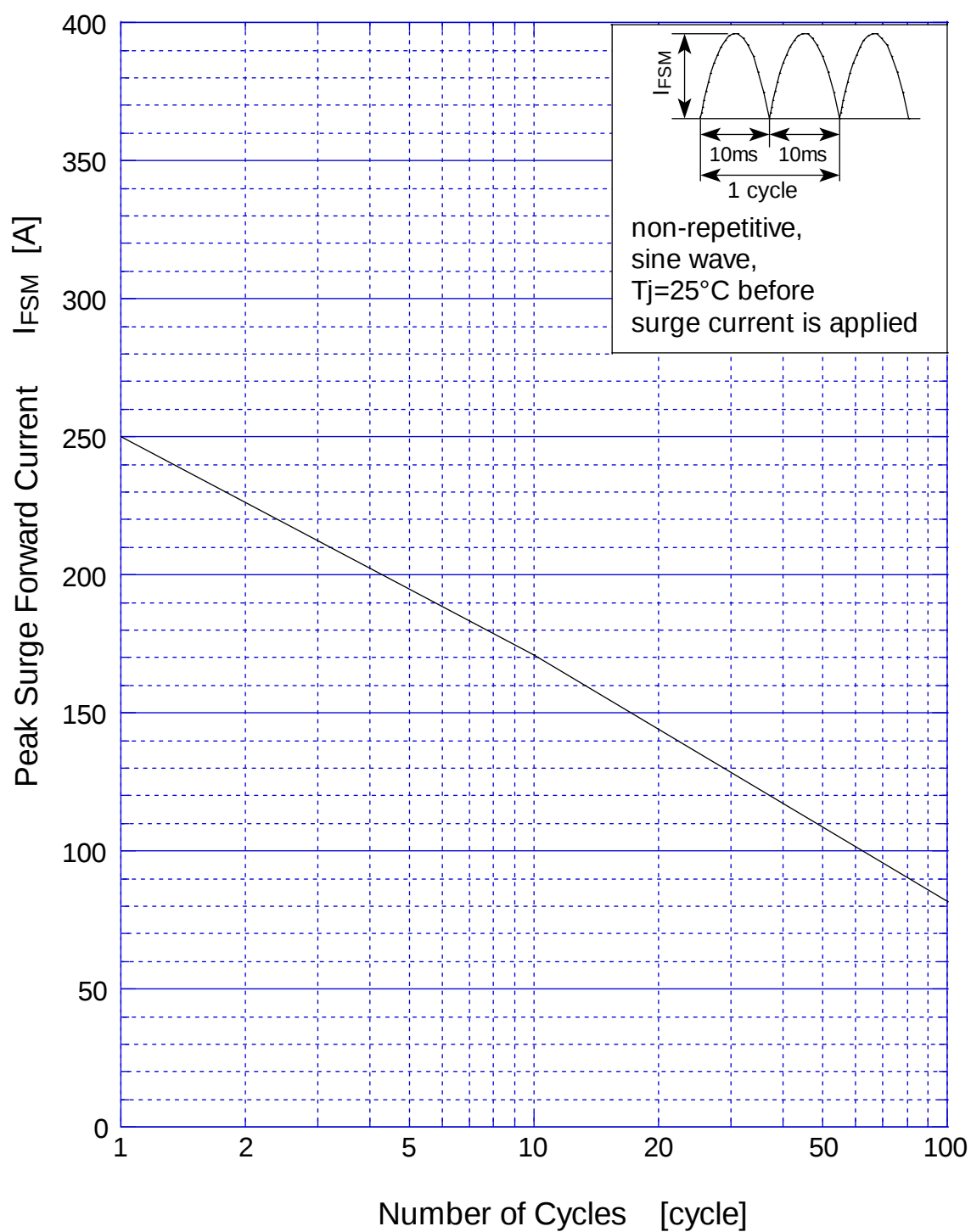


$V_R = 20\text{V}$



SF30JC4

Peak Surge Forward Capability



SF30JC4 Junction Capacitance

