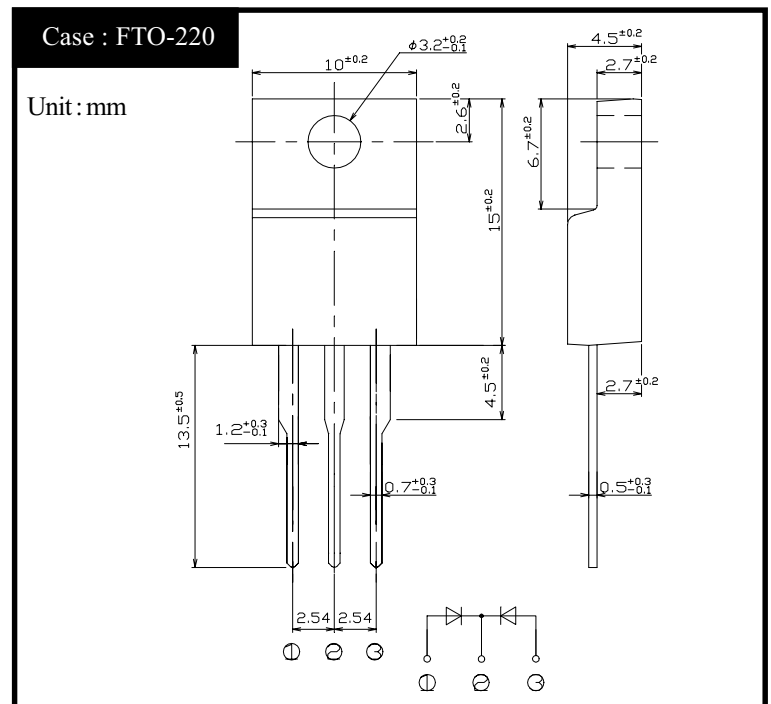


SF15JC6

60V 15A

OUTLINE DIMENSIONS



RATINGS

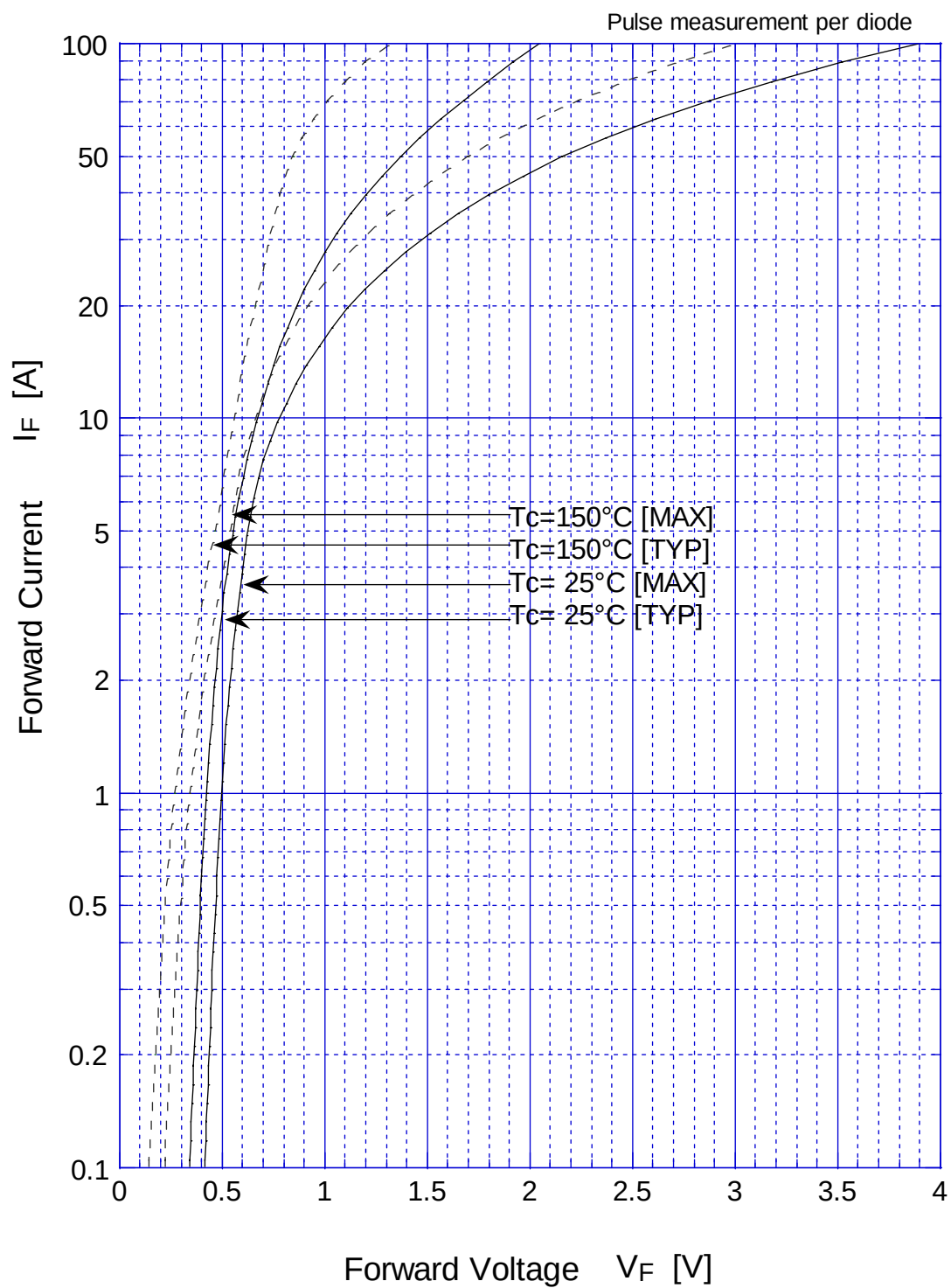
●Absolute Maximum Ratings (Unless otherwise specified, Tc = 25°C)

Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-55~150	°C
Operating Junction Temperature	Tj		150	°C
Maximum Reverse Voltage	V _{RM}		60	V
Repetitive Peak Surge Reverse Voltage	V _{RRSM}	Pulse width 0.5ms, duty 1/40	65	V
Average Rectified Forward Current	I _O	50Hz sine wave, R-load, Rating for each diode I _O /2, T _c =123°C	15	A
Peak Surge Forward Current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, T _j =25°C	150	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

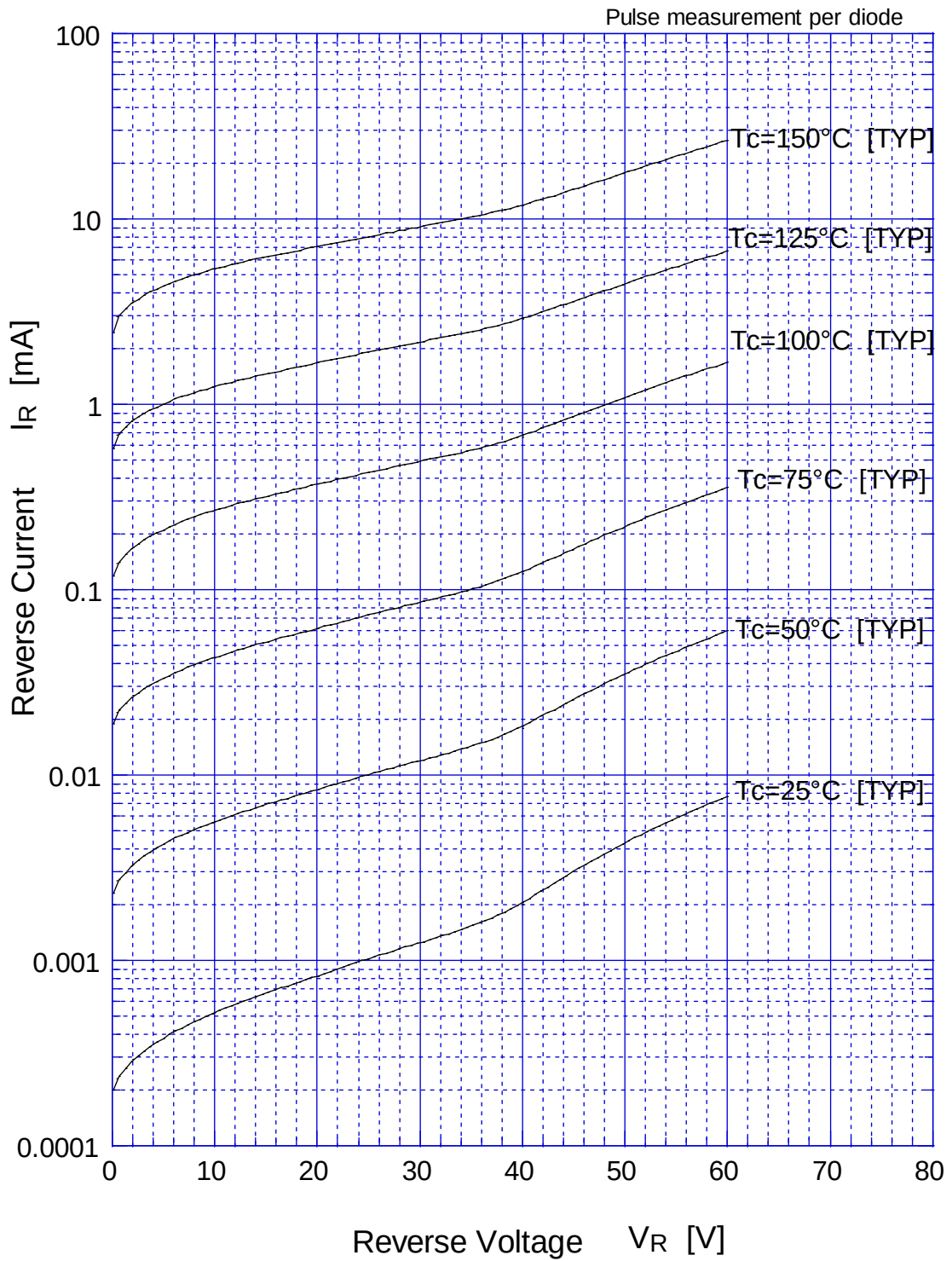
●Electrical Characteristics (Unless otherwise specified, Tc = 25°C)

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V_F	$I_F=7.5A$, Pulse measurement, Rating of per diode	Max 0.69	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 270	pF
Thermal Resistance	θ_{jc}	junction to case	Max 2.0	$^{\circ}C/W$

SF15JC6 Forward Voltage

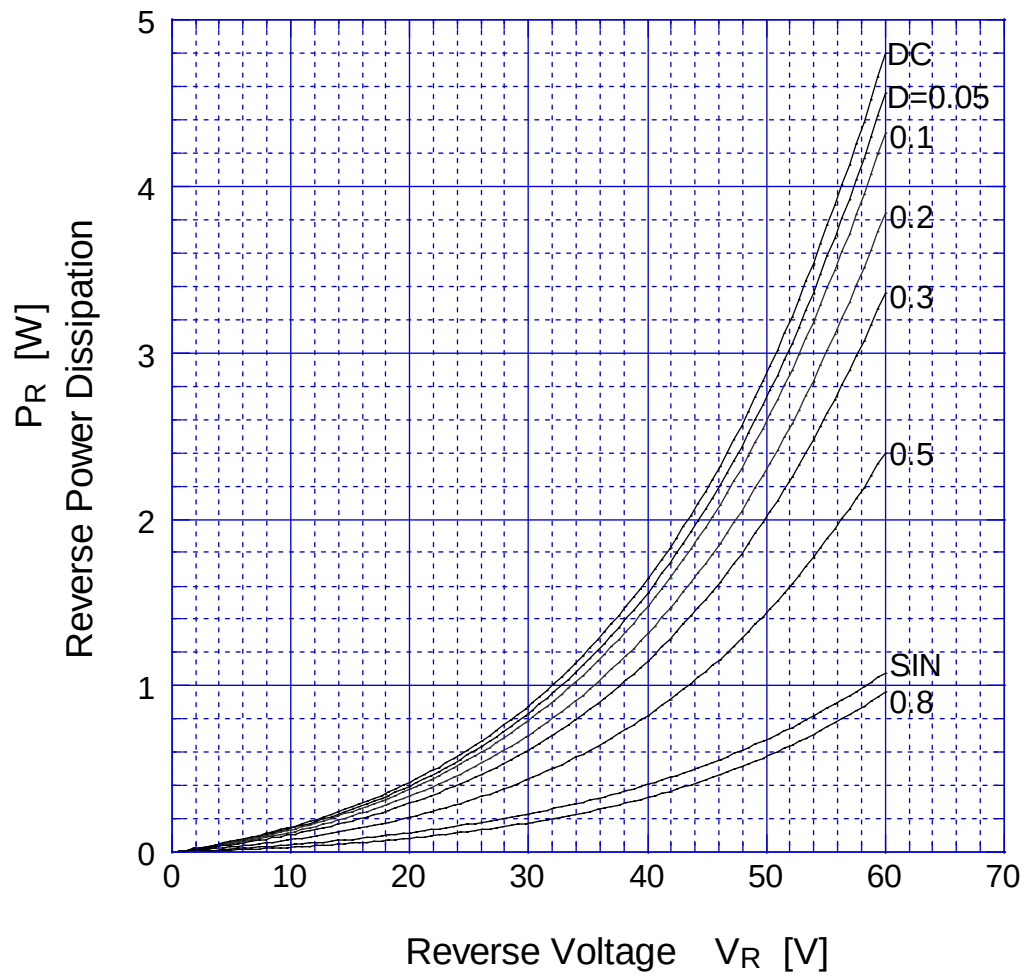


SF15JC6 Reverse Current

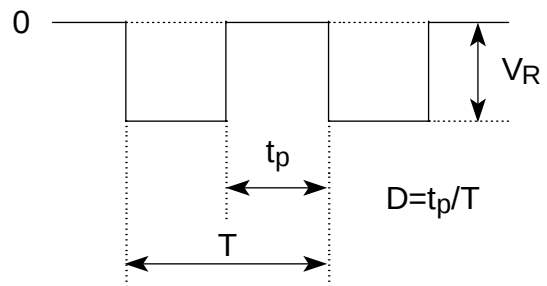


SF15JC6

Reverse Power Dissipation

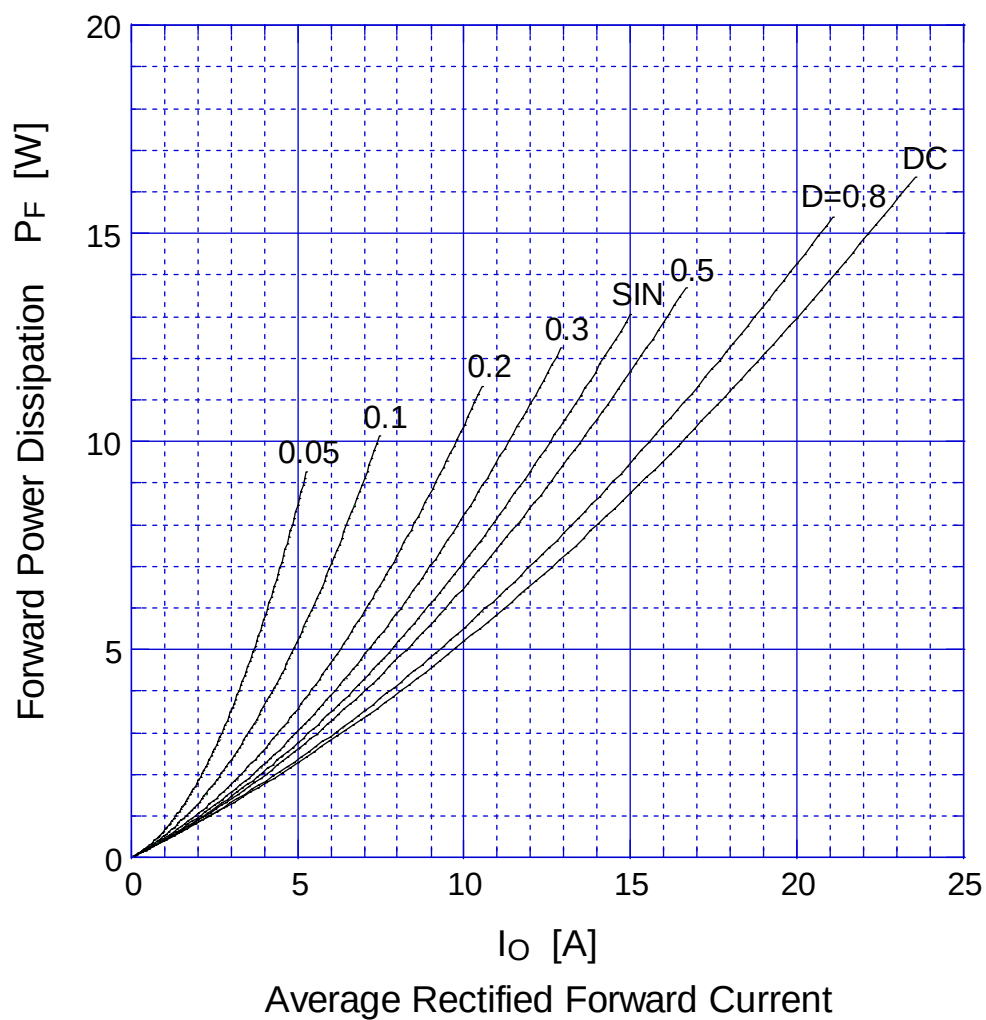


$T_j = 150^\circ\text{C}$

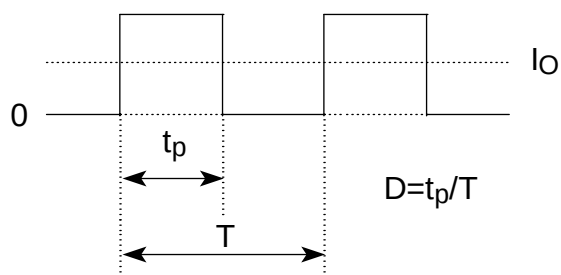


SF15JC6

Forward Power Dissipation

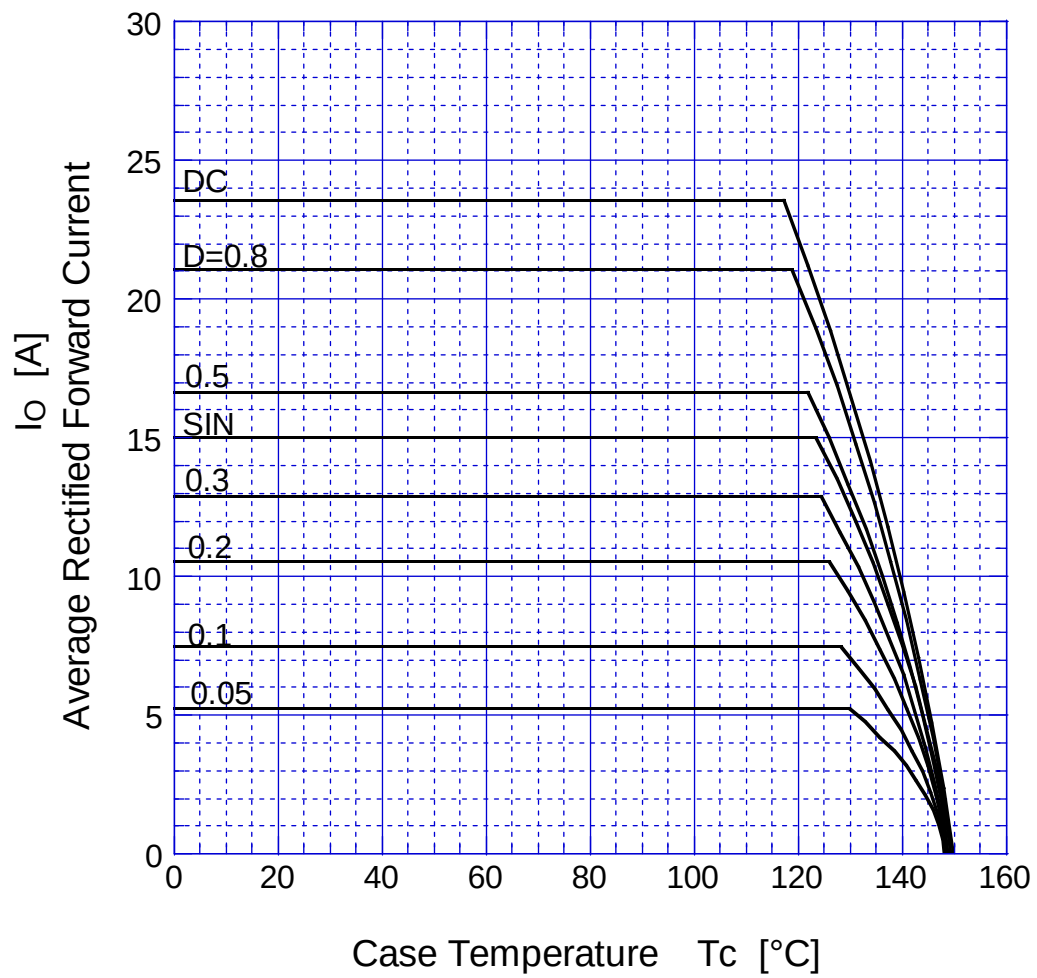


$T_j = 150^\circ\text{C}$

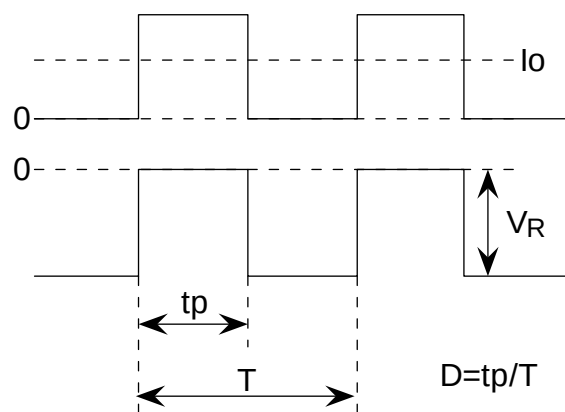


SF15JC6

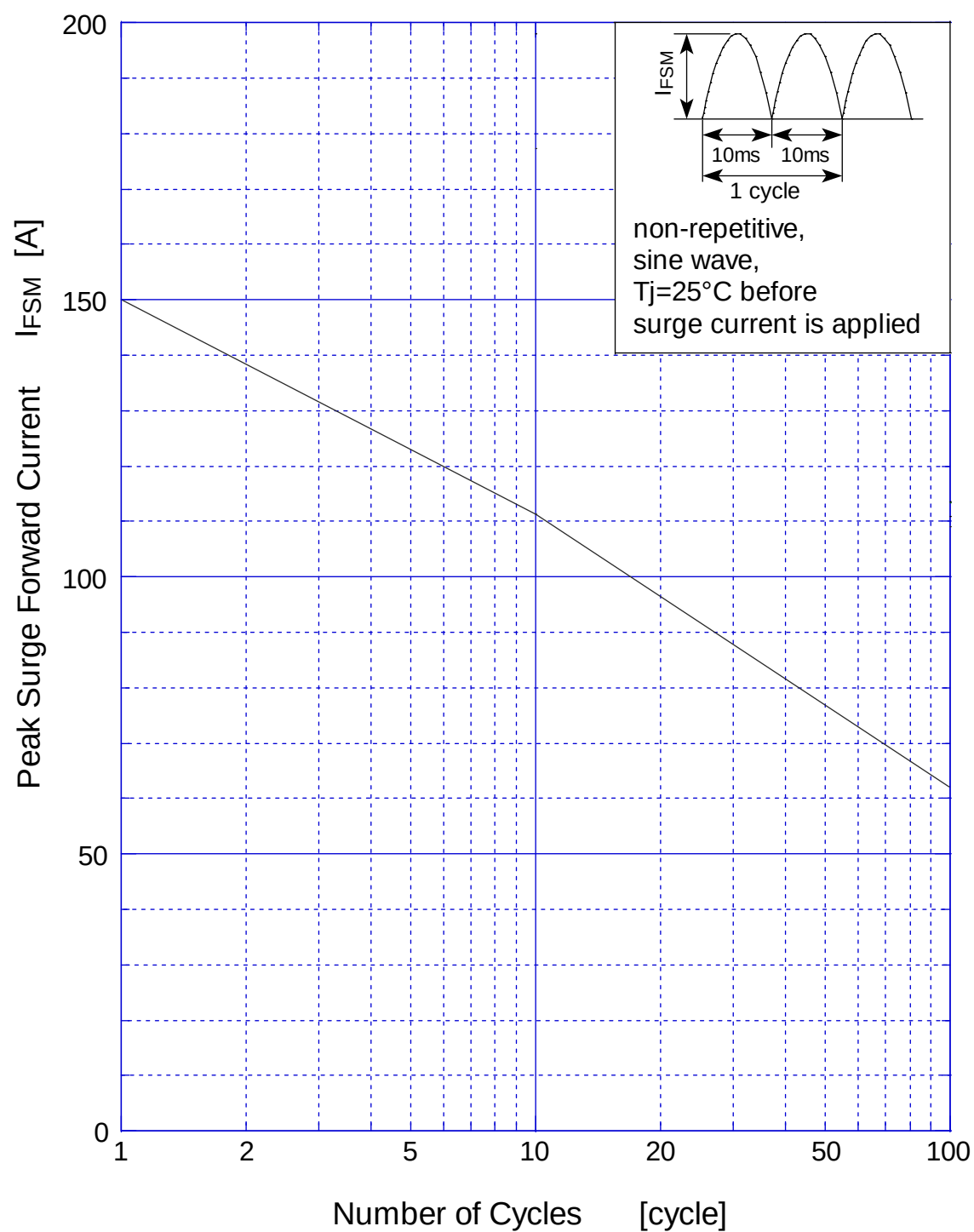
Derating Curve



$V_R = 30V$



SF15JC6 Peak Surge Forward Capability



SF15JC6 Junction Capacitance

