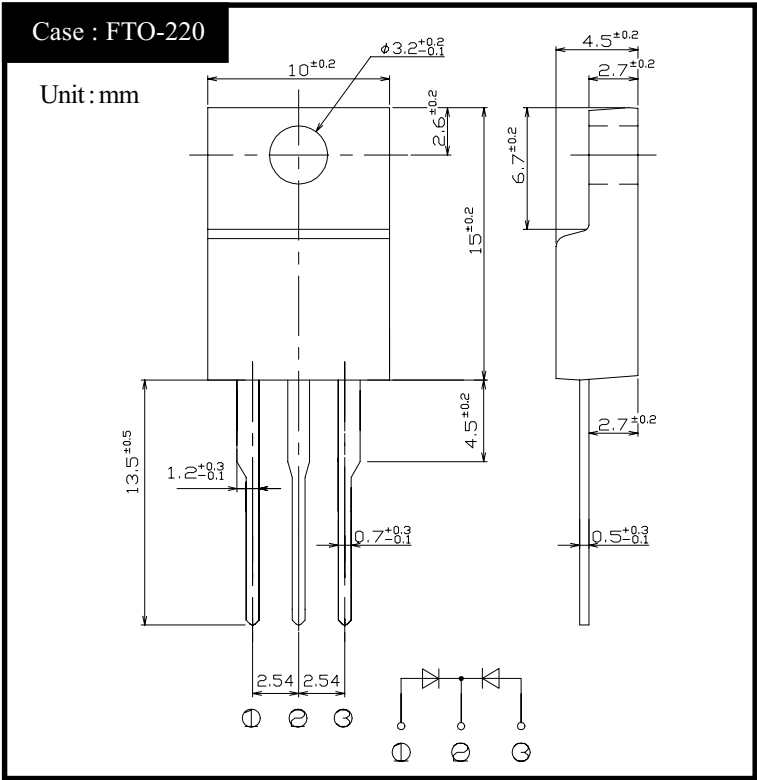


SF15SC6

60V 15A

OUTLINE DIMENSIONS



RATINGS

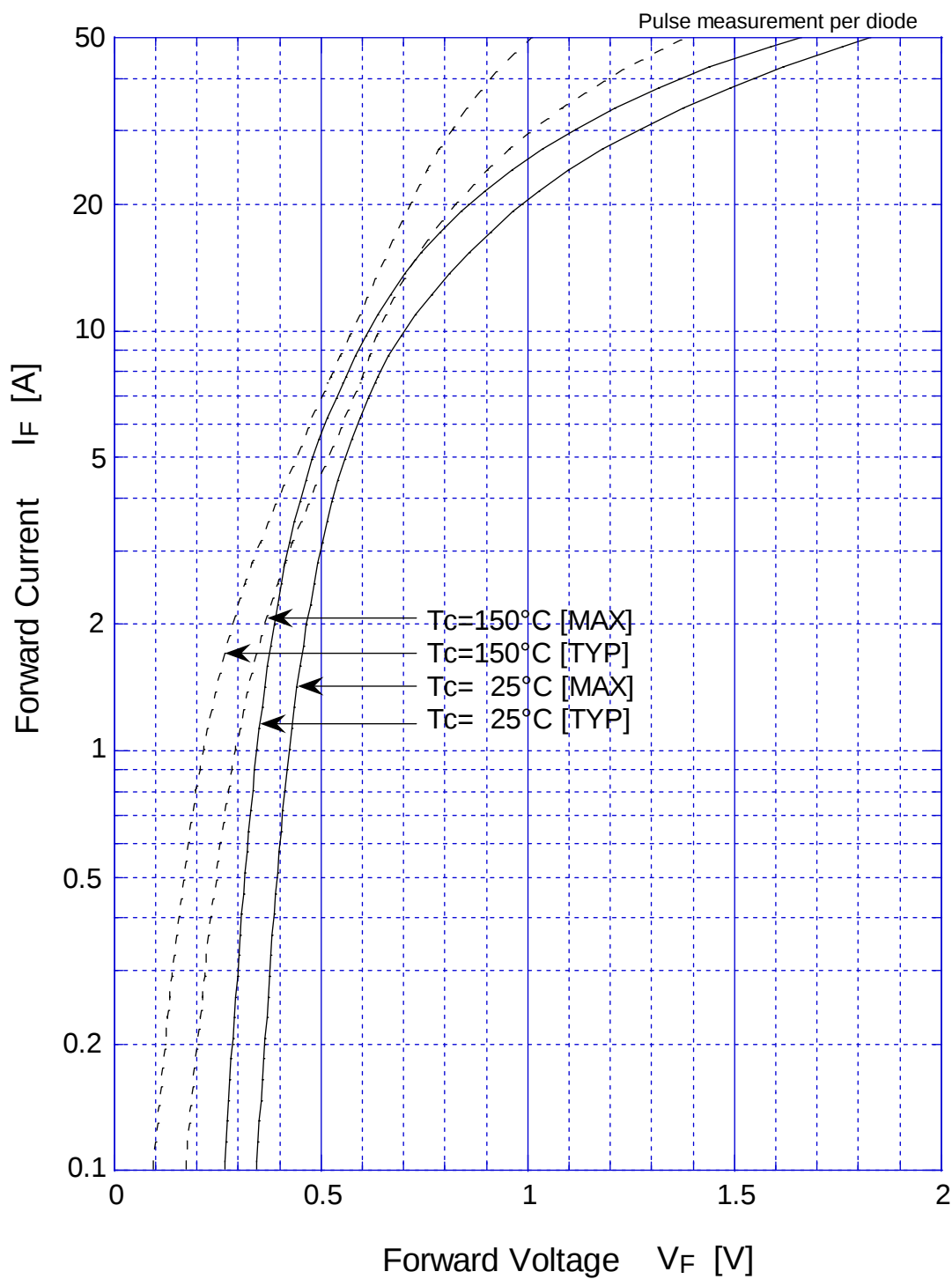
●Absolute Maximum Ratings (Unless otherwise specified, T_c=25°C)

Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	T _{stg}		-55~150	°C
Operating Junction Temperature	T _j		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 =122°C	15	A
Peak Surge Forward Current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, T _j =25°C	160	A
Repetitive Peak Surge Reverse Power	P _{RRSM}	Pulse width 10 μ s, Rating of per diode, T _j =25°C	330	W
Dielectric Strength	V _{dis}	Terminals to case, AC 1 minute	2	kV
Mounting Torque	TOR	(Recommended torque : 0.3N·m)	0.5	N·m

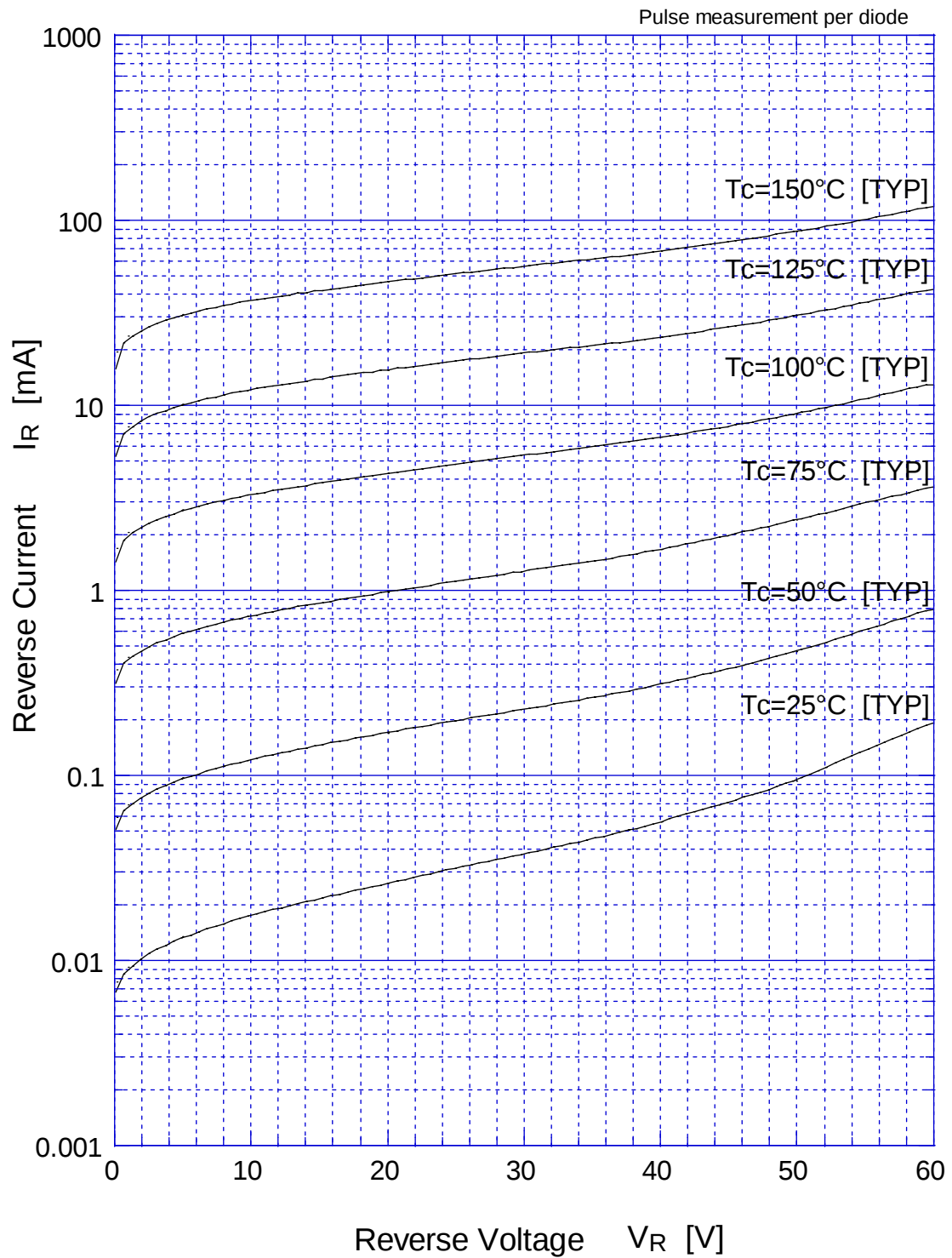
●Electrical Characteristics (Unless otherwise specified, T_c=25°C)

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V _F	I _F =7.5A, Pulse measurement, Rating of per diode	Max 0.63	V
Reverse Current	I _R	V _R =V _{RM} , Pulse measurement, Rating of per diode	Max 6.0	mA
Junction Capacitance	C _j	f=1MHz, V _R =10V, Rating of per diode	Typ 260	pF
Thermal Resistance	θ_{jc}	junction to case	Max 2.0	°C/W
	θ_{jf}	junction to heatsink	Max 4.5	°C/W
	θ_{cf}	case to heatsink	Max 2.5	°C/W

SF15SC6 Forward Voltage

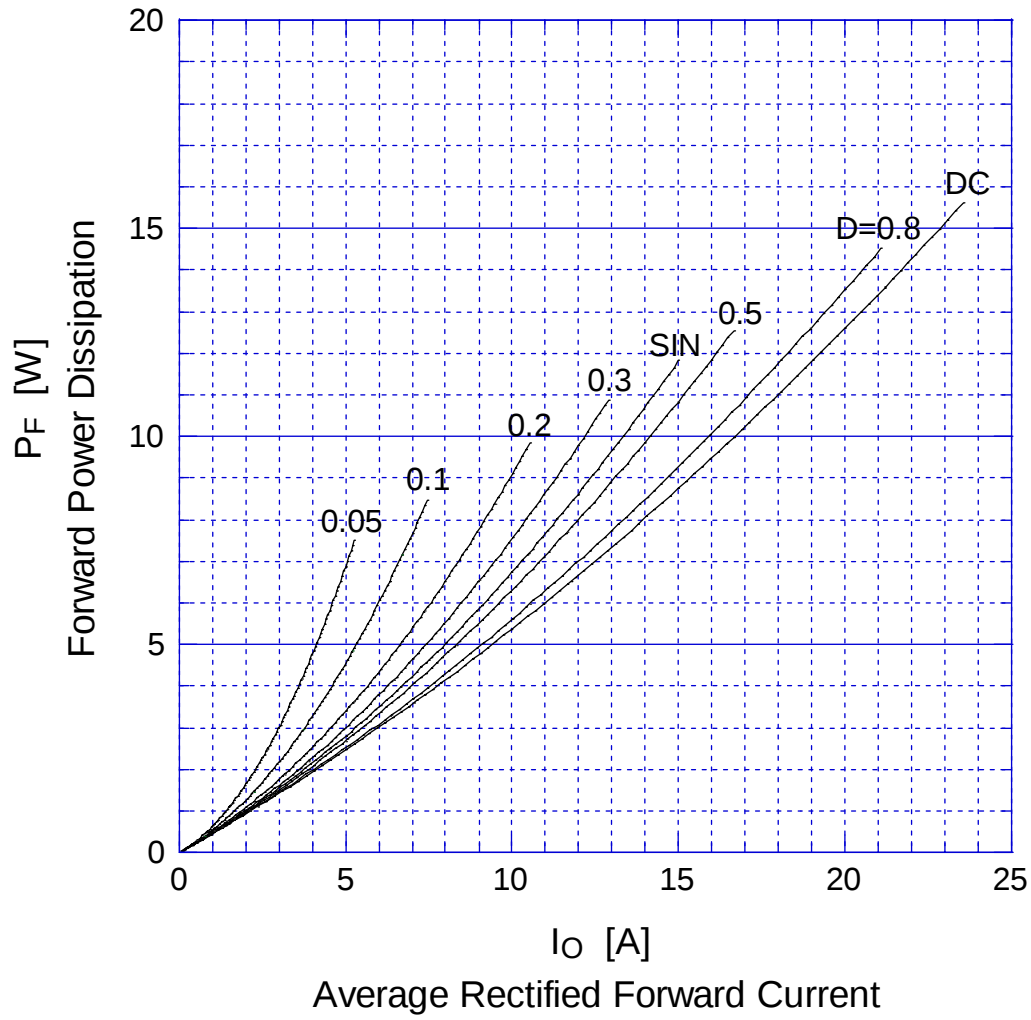


SF15SC6 Reverse Current

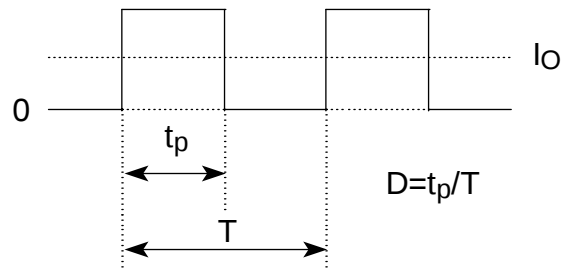


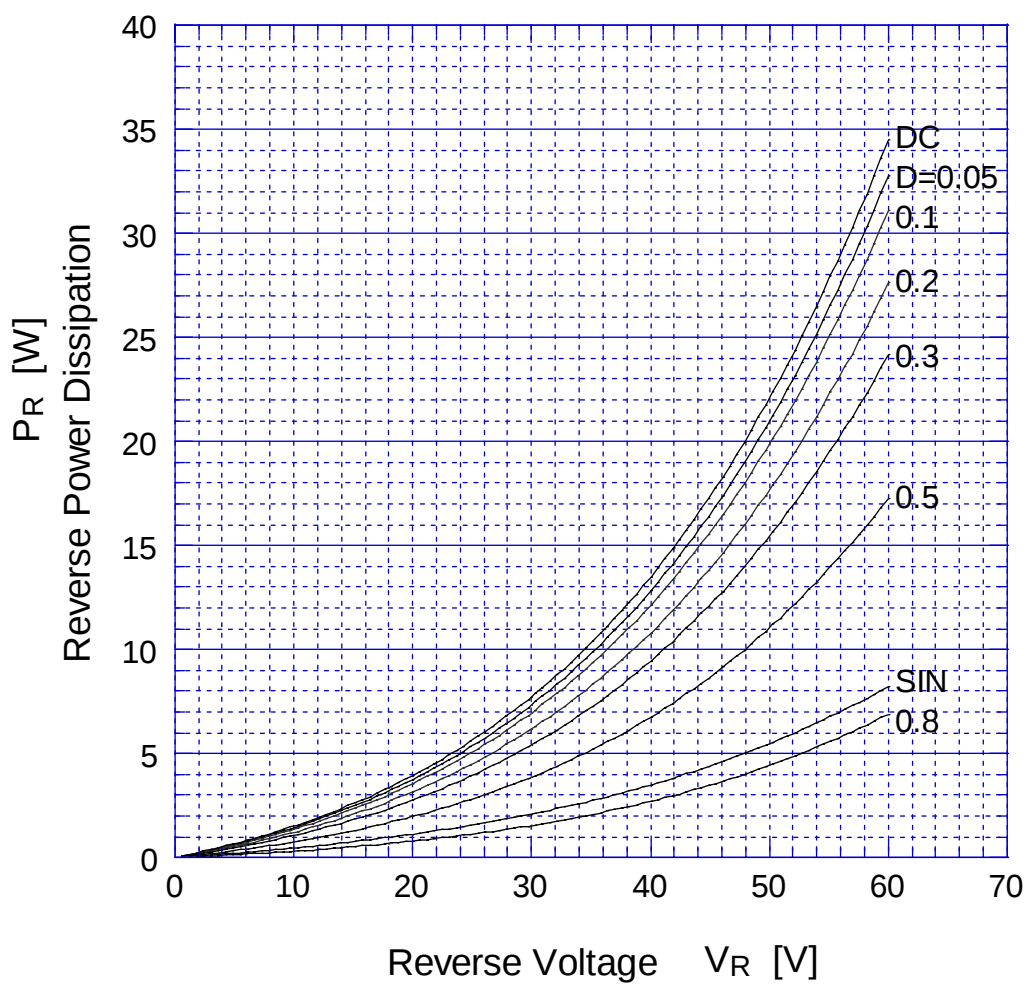
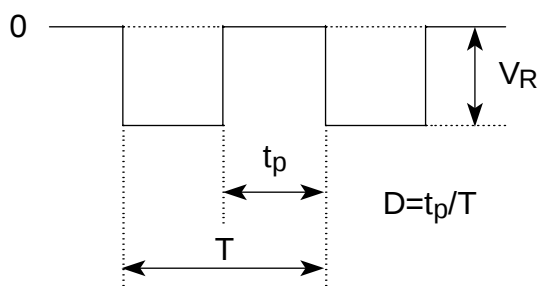
SF15SC6

Forward Power Dissipation



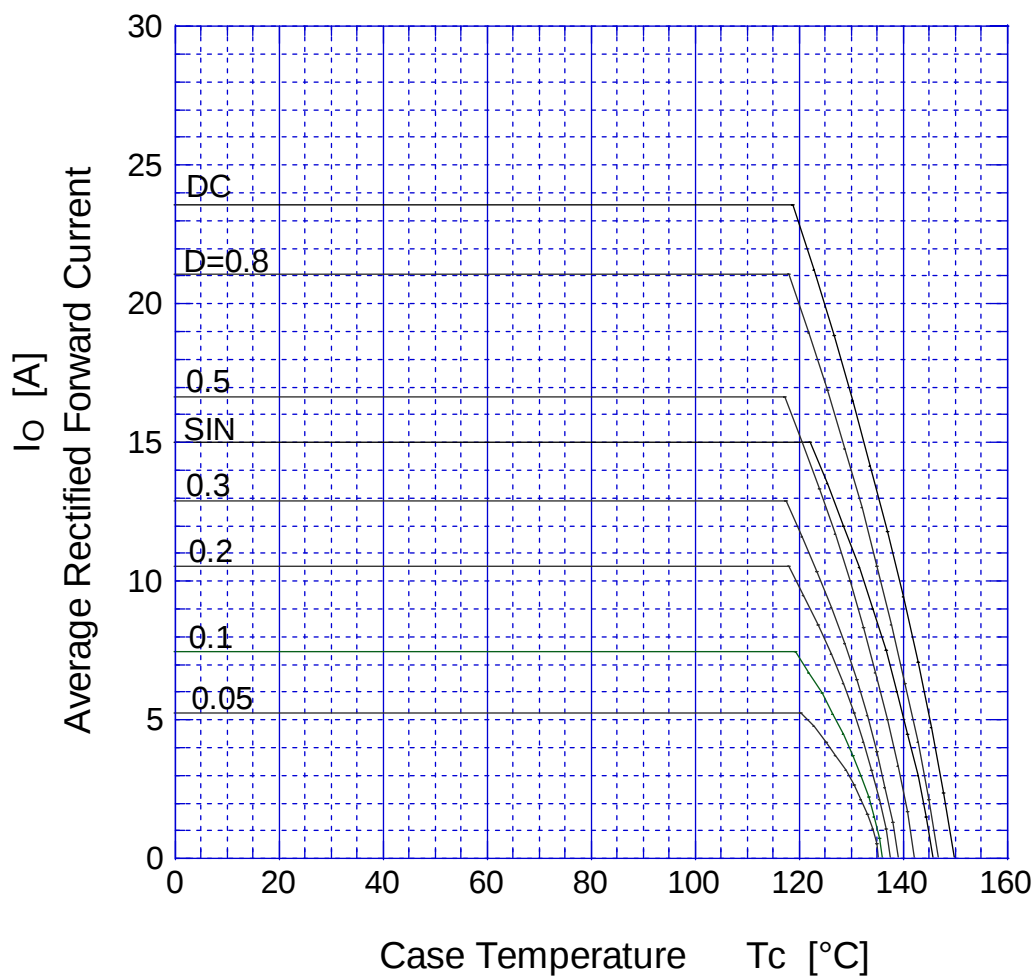
$T_j = 150^\circ\text{C}$



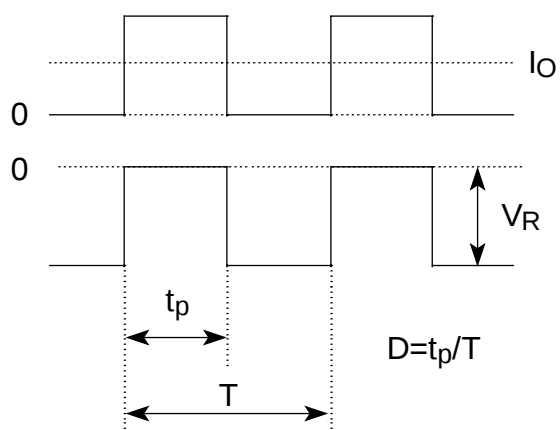
 $T_j = 150^\circ\text{C}$ 

SF15SC6

Derating Curve

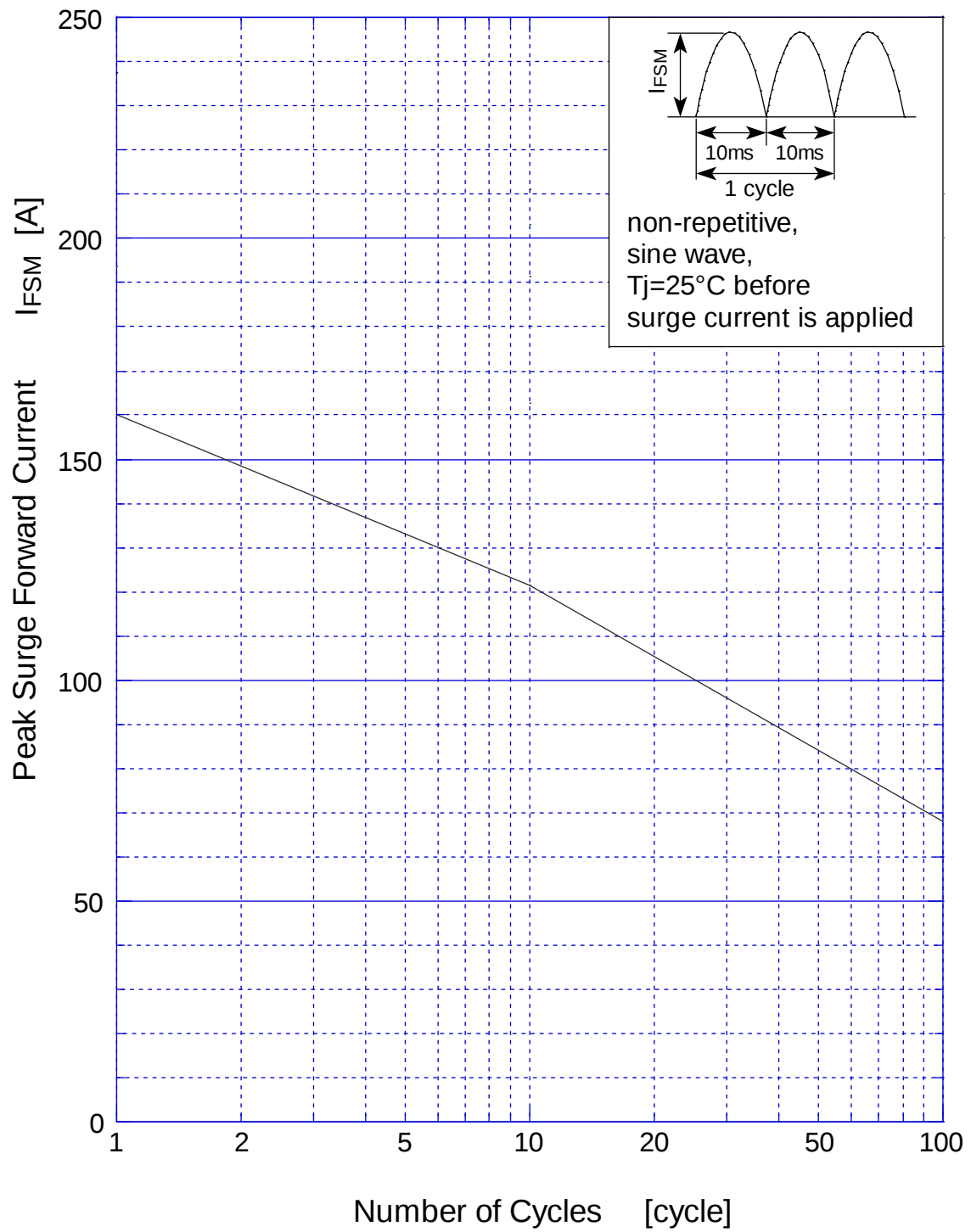


$V_R = 30V$



SF15SC6

Peak Surge Forward Capability



SF15SC6 Junction Capacitance

