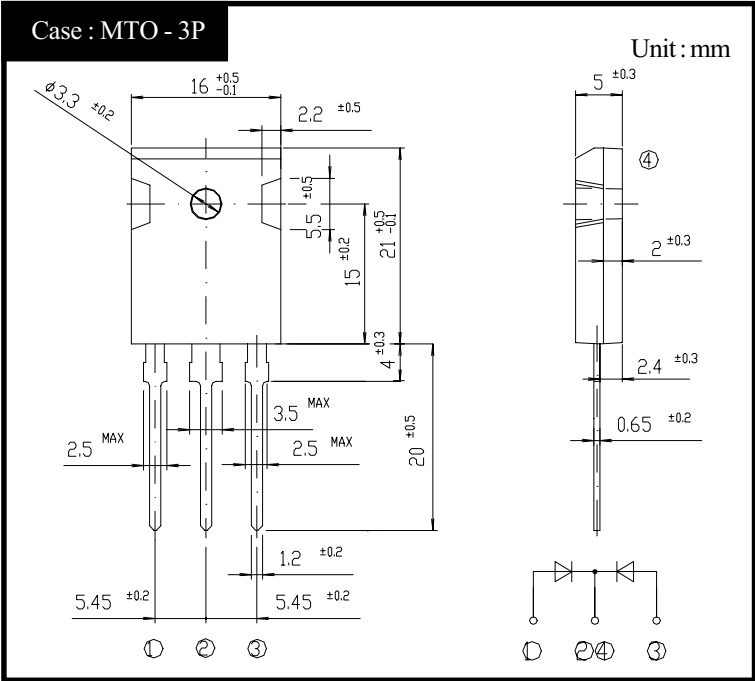


S60HC3

30V 60A

OUTLINE DIMENSIONS



RATINGS

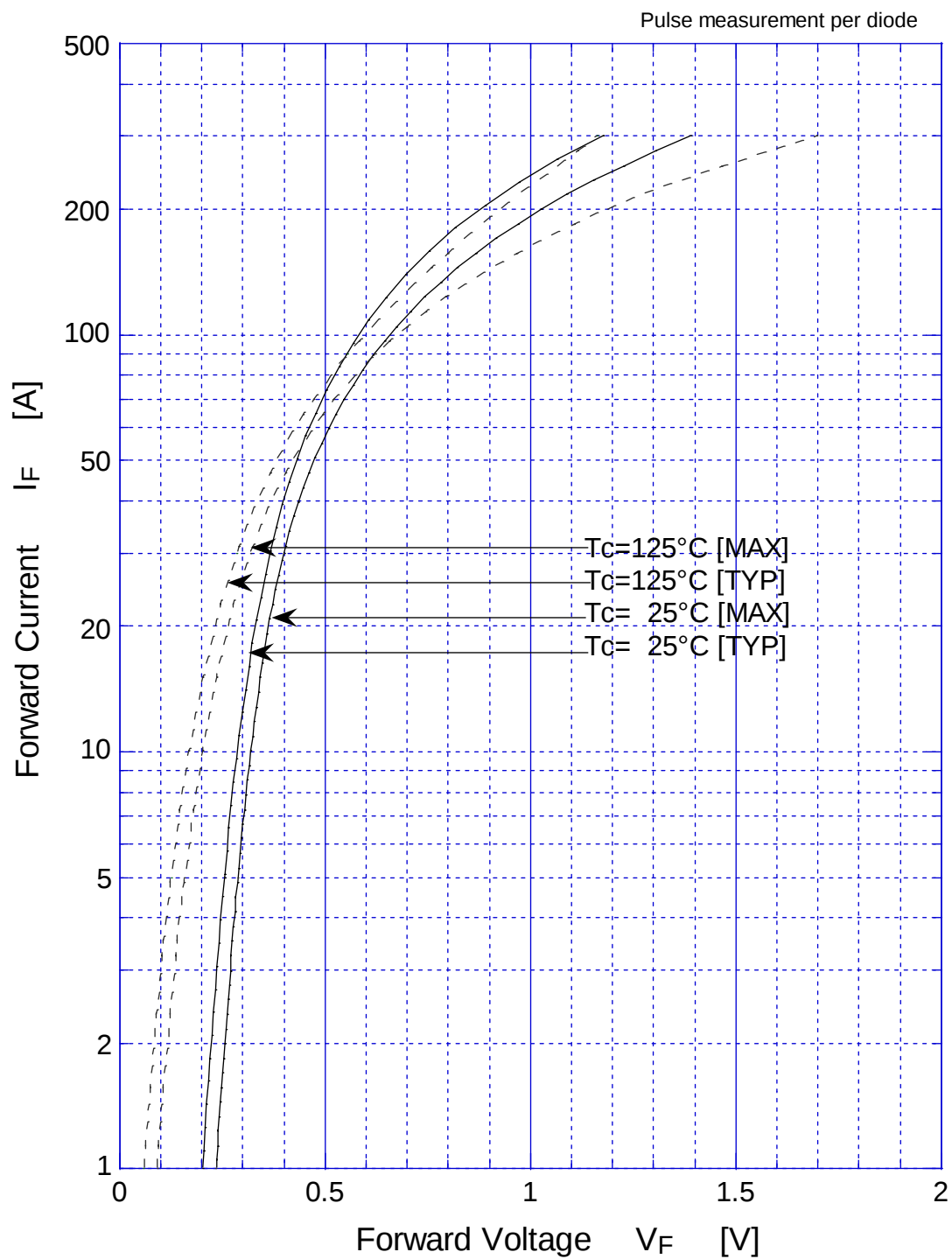
●Absolute Maximum Ratings (Tc=25°C, unless otherwise specified)

Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-55~125	°C
Operating Junction Temperature	Tj		125	°C
Maximum Reverse Voltage	VRM		30	V
Average Rectified Forward Current	Io	50Hz sine wave, R-load, Rating for each diode Io/2, Tc=104°C	60	A
Peak Surge Forward Current	IFSM	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C	550	A
Mounting Torque	TOR	(Recommended torque : 0.5N·m)	0.8	N·m

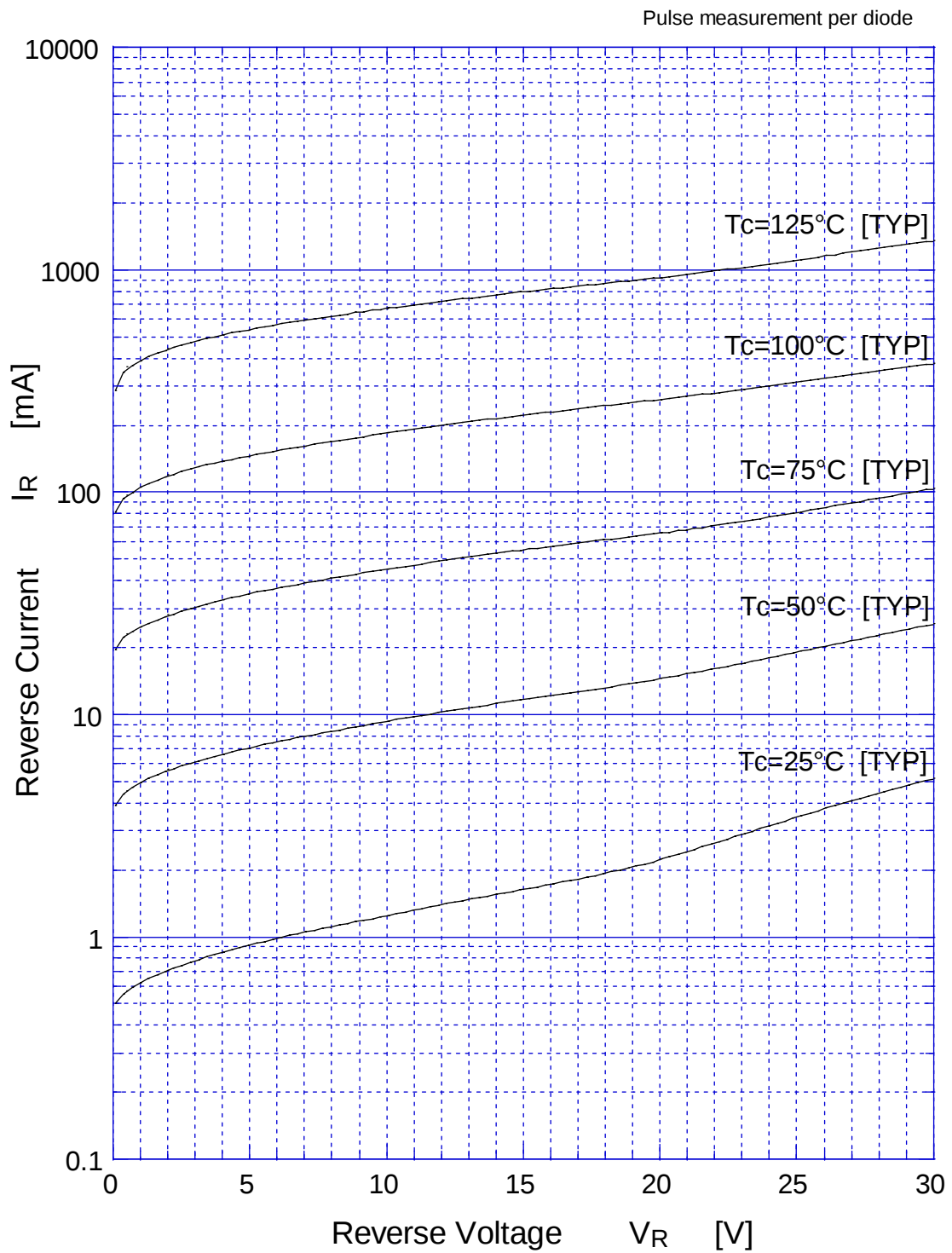
●Electrical Characteristics (Tc=25°C, unless otherwise specified)

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	VF	IF=30A, Pulse measurement, Rating of per diode	Max 0.4	V
Reverse Current	IR	VR=30V, Pulse measurement, Rating of per diode	Max 20	mA
Junction Capacitance	Cj	f=1MHz, VR=10V, Rating of per diode	Typ 1100	pF
Thermal Resistance	θjc	junction to case	Max 0.5	°C/W

S60HC3 Forward Voltage

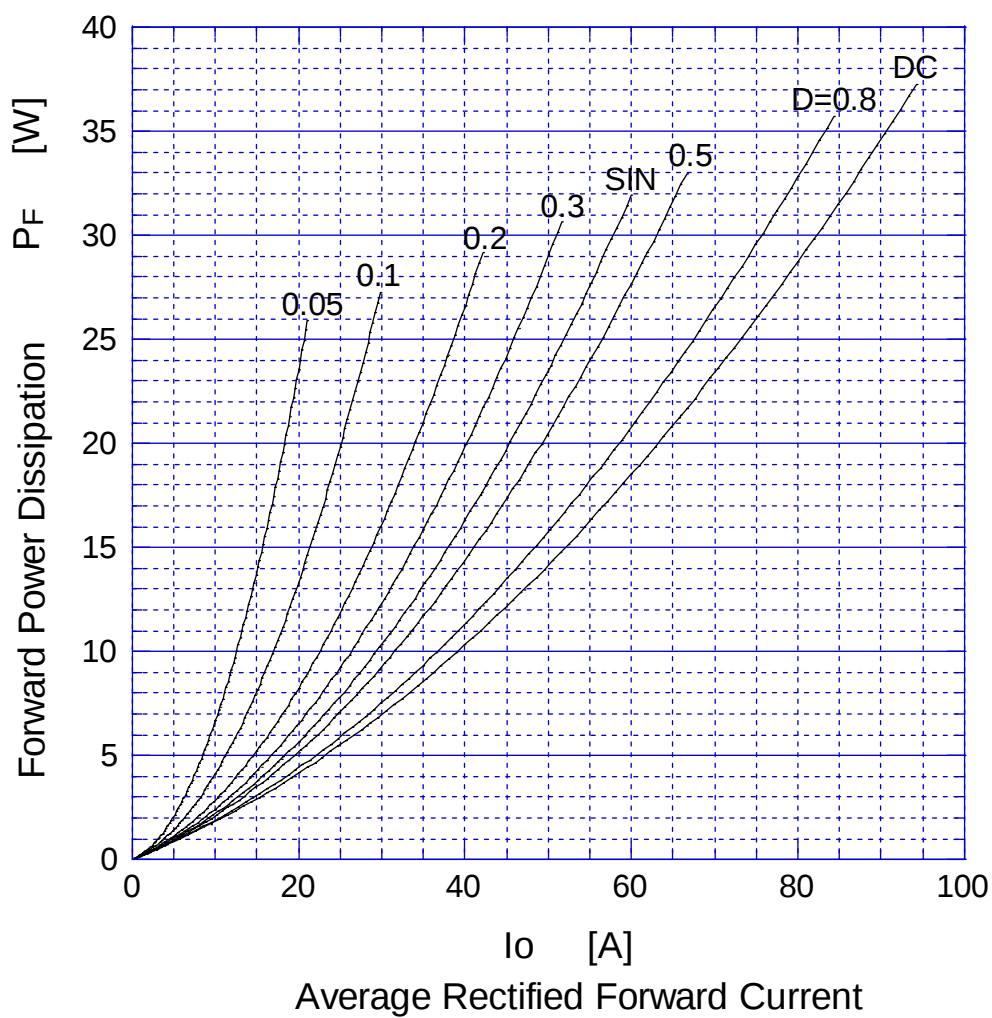


S60HC3 Reverse Current

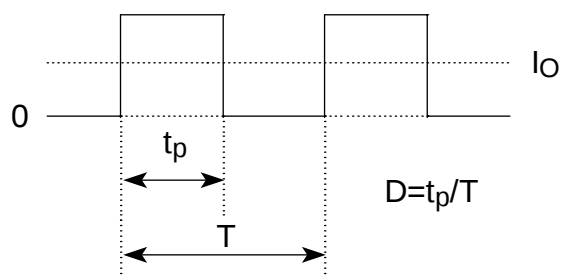


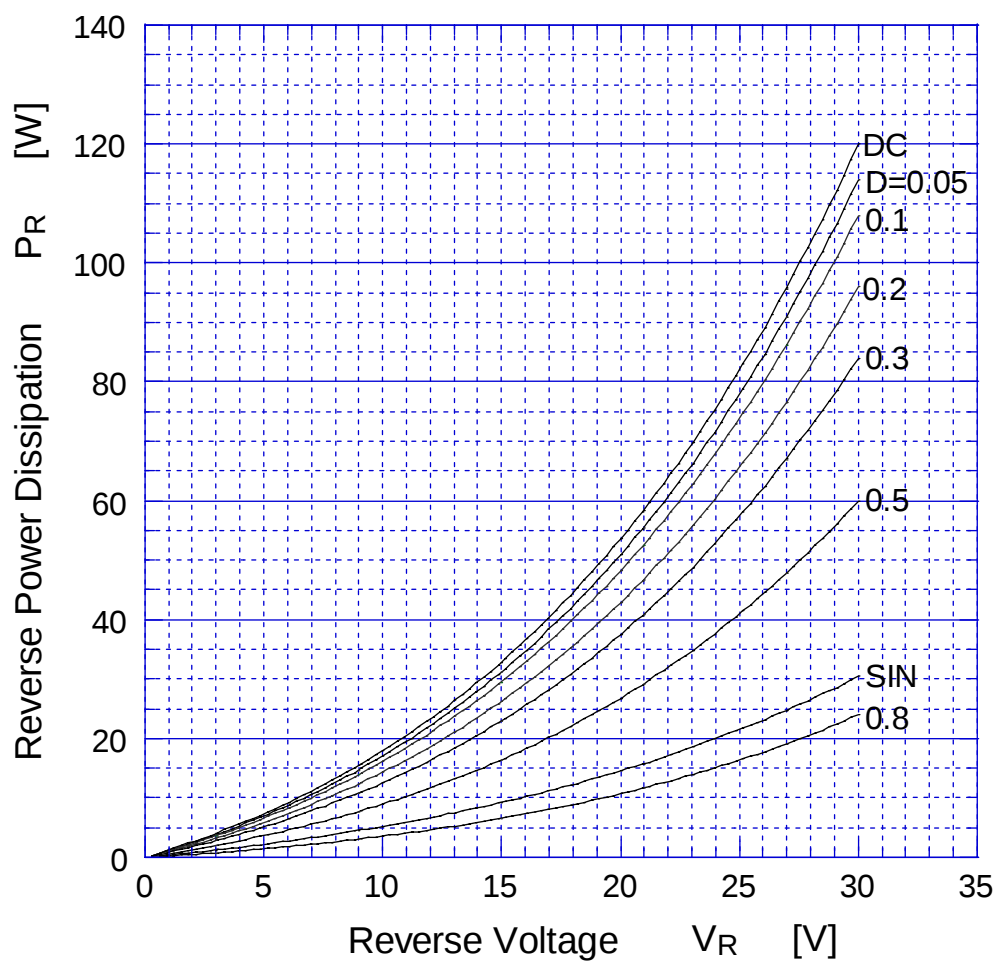
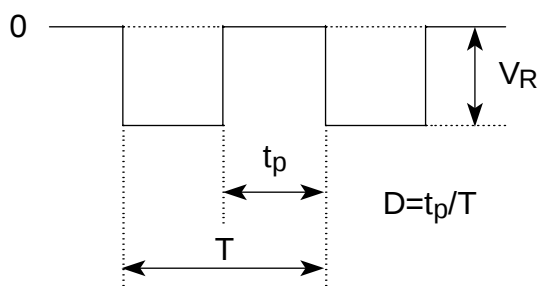
S60HC3

Forward Power Dissipation



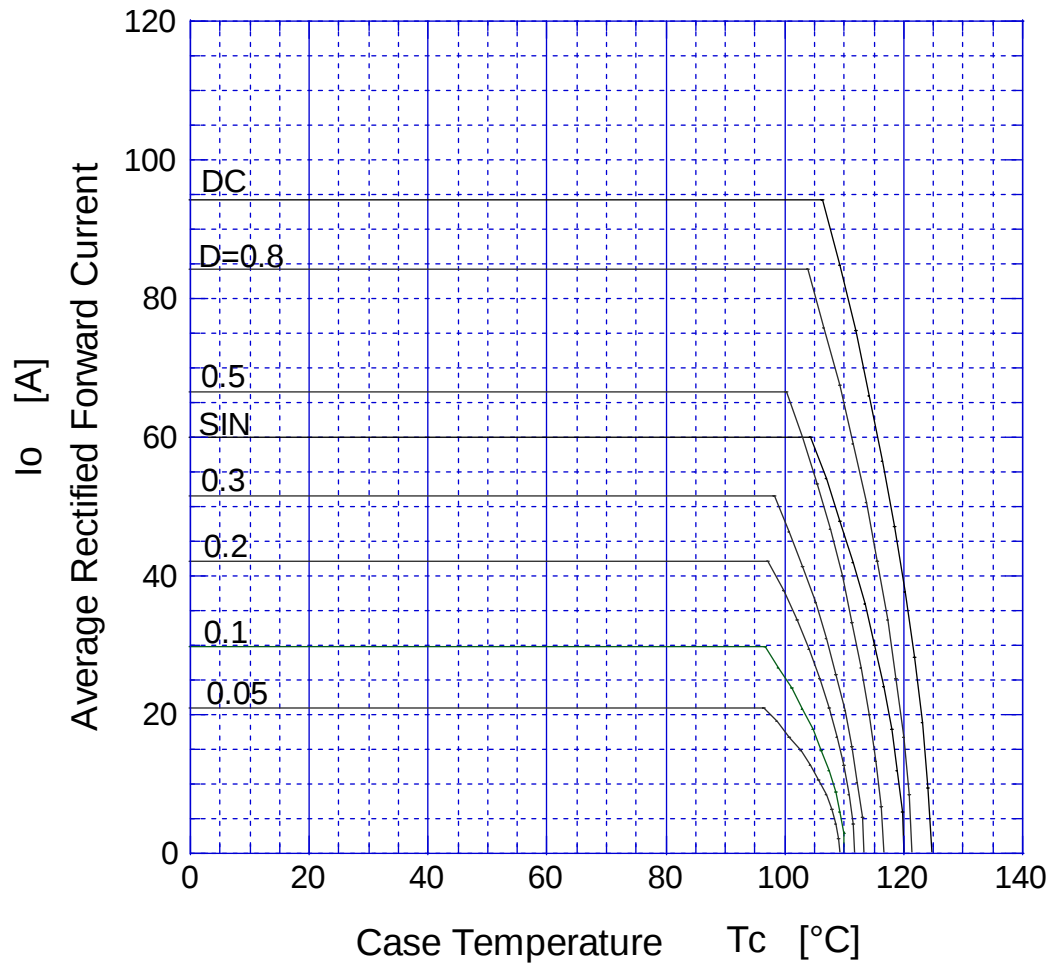
$T_j = 125^\circ\text{C}$



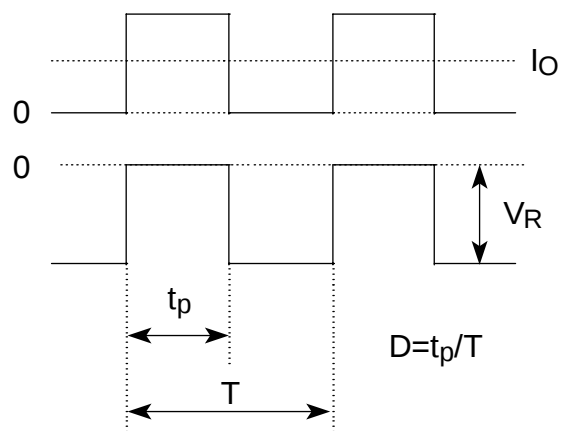
 $T_j = 125^\circ\text{C}$ 

S60HC3

Derating Curve

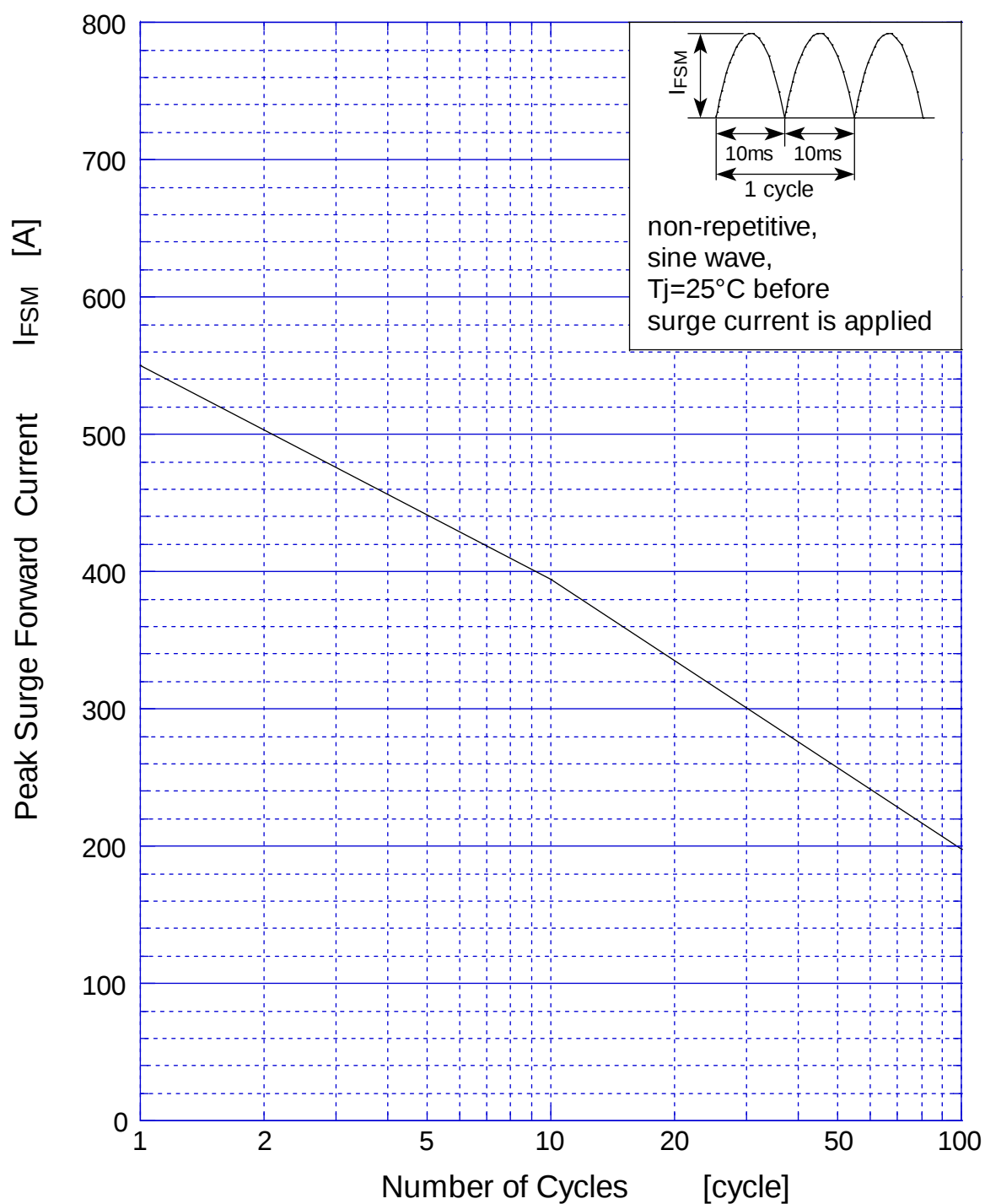


$V_R = 15\text{V}$



S60HC3

Peak Surge Forward Capability



S60HC3 Junction Capacitance

