

SHINDENGEN

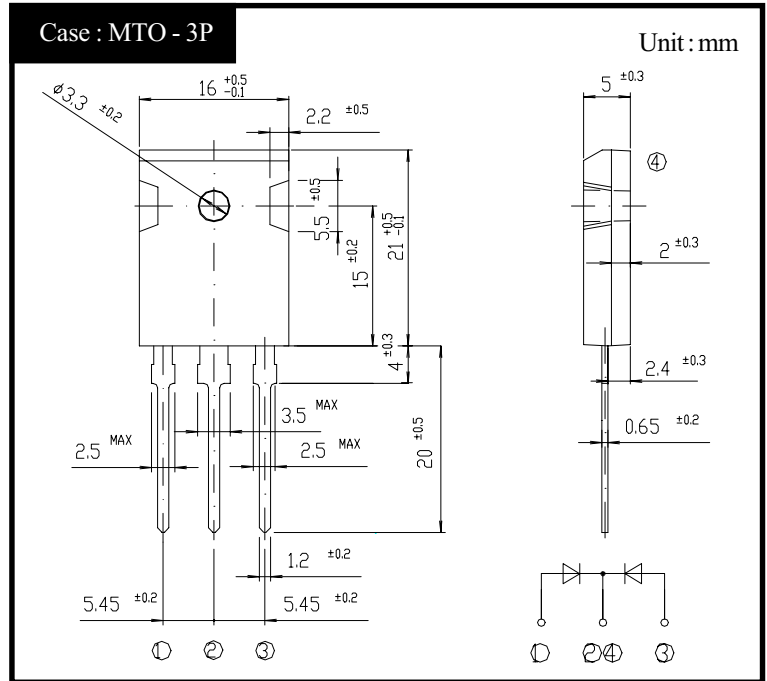
Schottky Rectifiers (SBD)

Dual

S60HC1R5

15V 60A

OUTLINE DIMENSIONS



RATINGS

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

Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	T _{stg}		-55 ~ 125	°C
Operating Junction Temperature	T _j		125	°C
Maximum Reverse Voltage	V _{RM}		15	V
Average Rectified Forward Current	I _o	50Hz sine wave, R-load, Rating for each diode I _o /2, T _c =90°C	60	A
Peak Surge Forward Current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, T _j =25°C	500	A
Mounting Torque	TOR	(Recommended torque : 0.5N·m)	0.8(0.5)	N·m

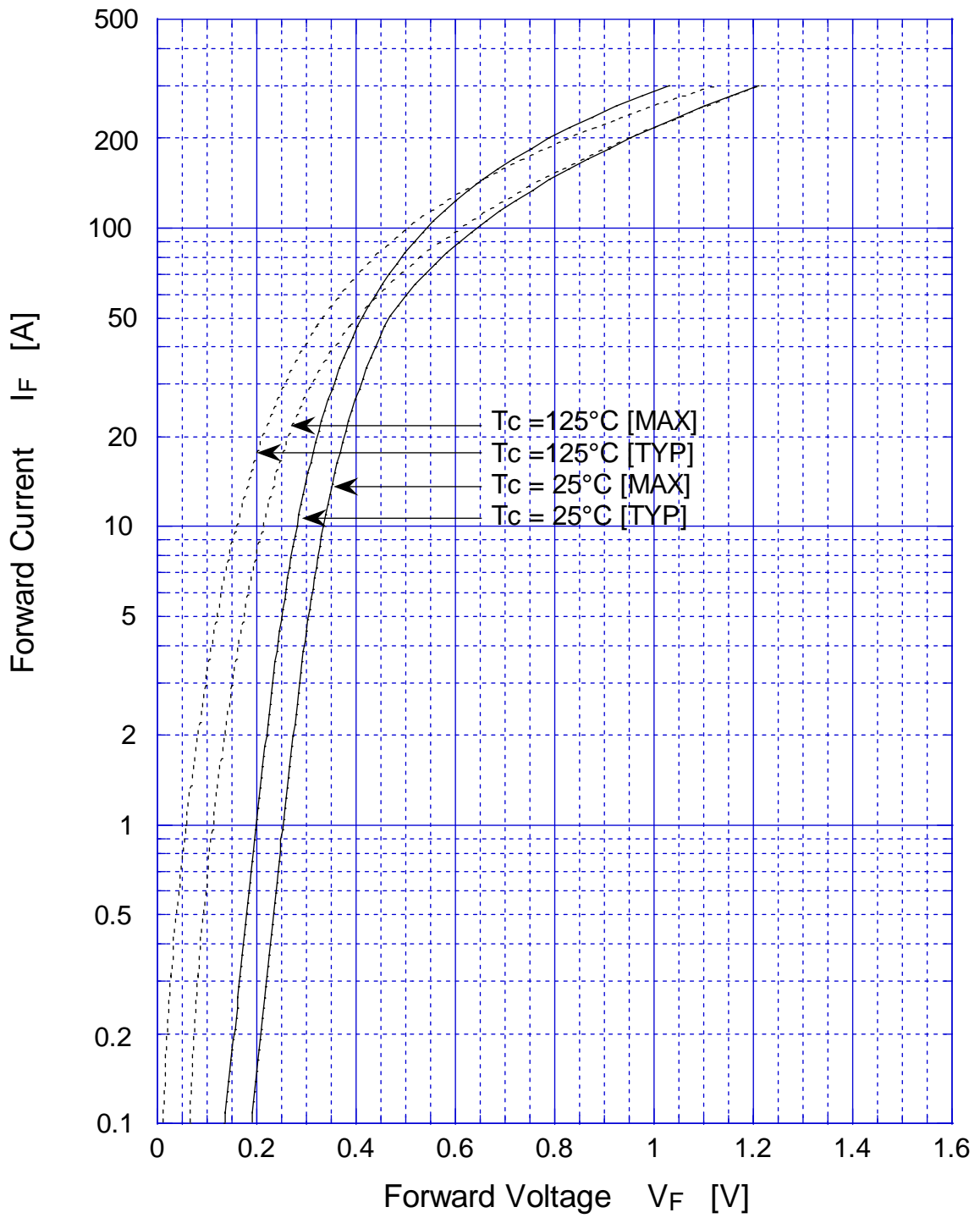
● Electrical Characteristics (T_c=25°C, unless otherwise specified)

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V _F	I _F =30A, Pulse measurement, Rating of per diode	Max 0.41	V
Reverse Current	I _R	V _R =15V, Pulse measurement, Rating of per diode	Max 15	mA
Junction Capacitance	C _j	f=1MHz, V _R =10V, Rating of per diode	Typ 1400	pF
Thermal Resistance	θ_{jc}	junction to case	Max 1.0	°C/W

S60HC1R5

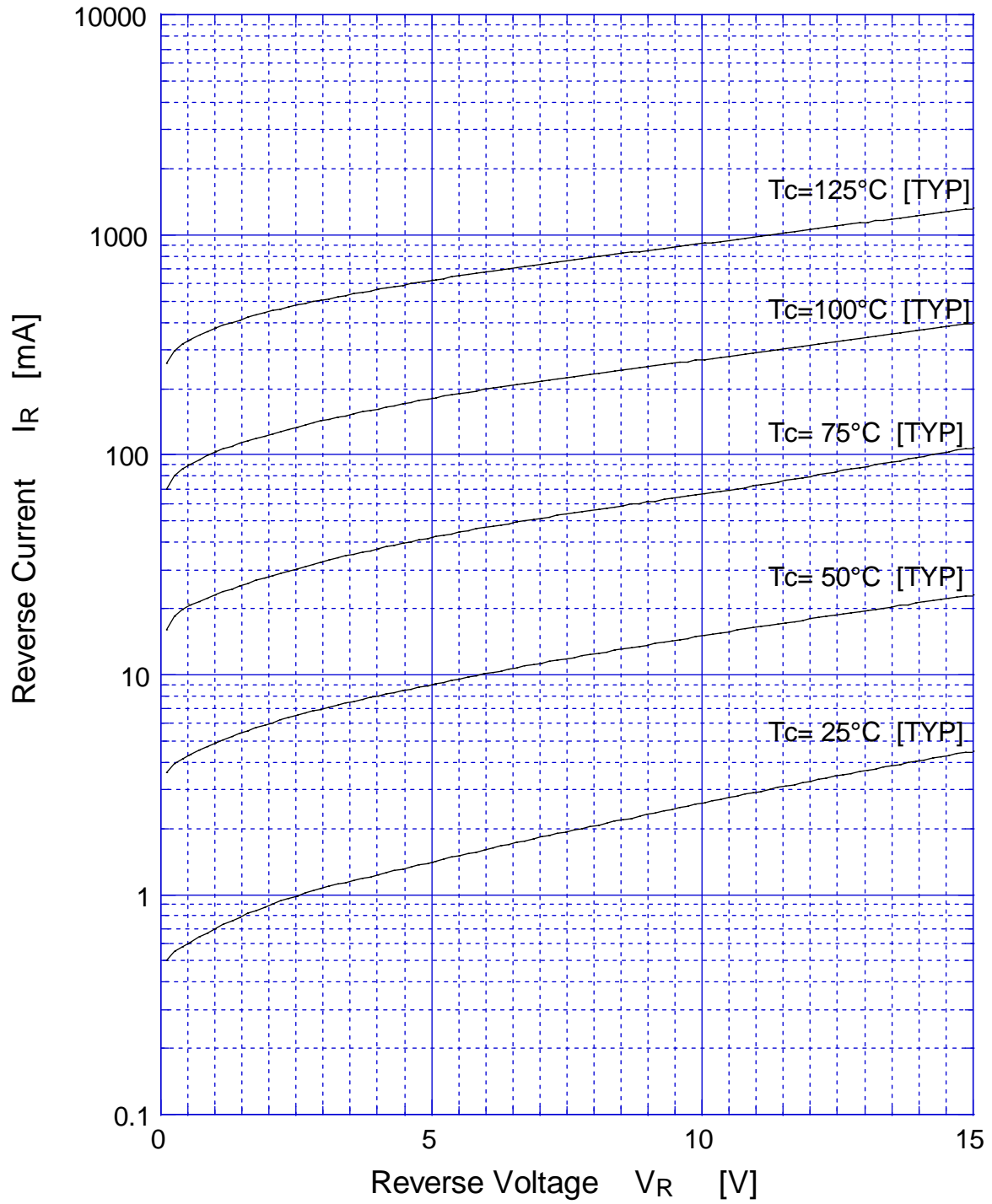
Forward Voltage

Pulse measurement per diode

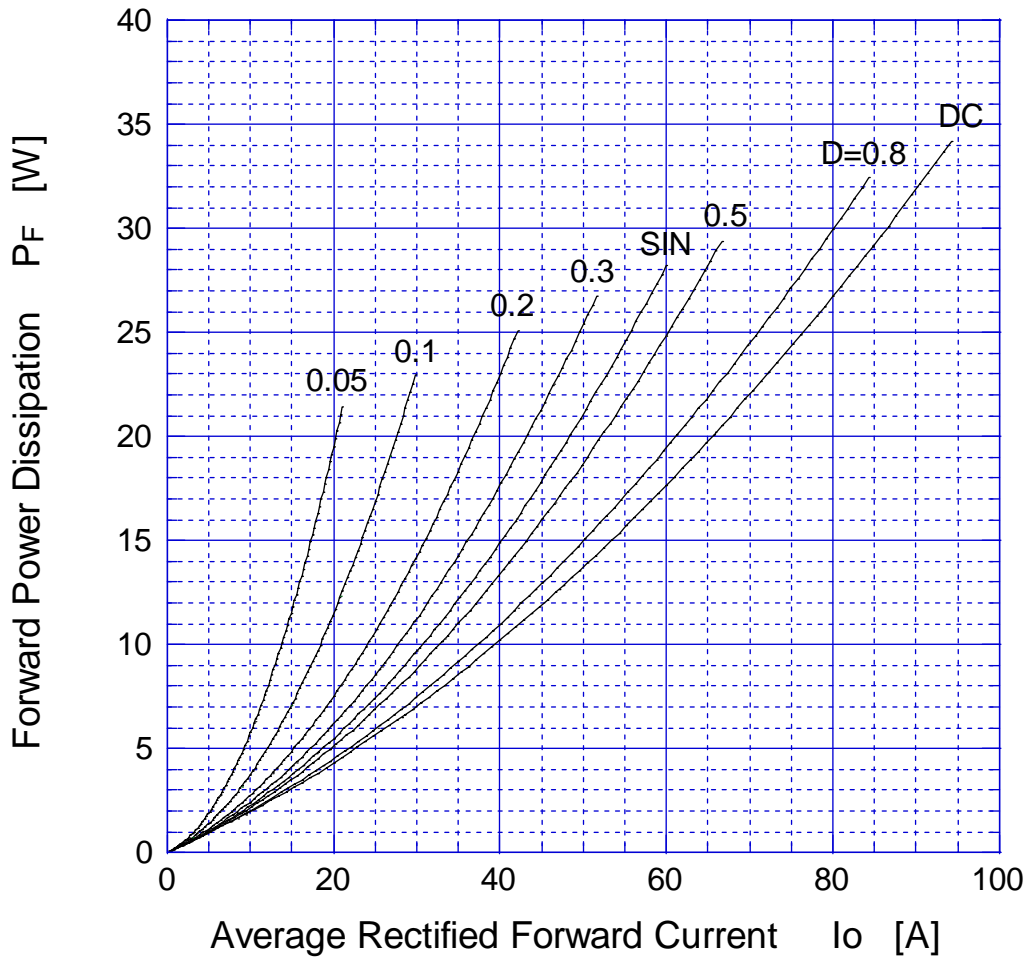


S60HC1R5 Reverse Current

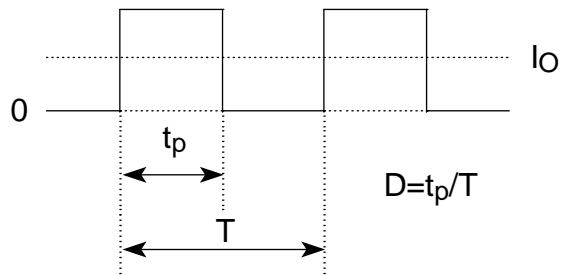
Pulse measurement per diode



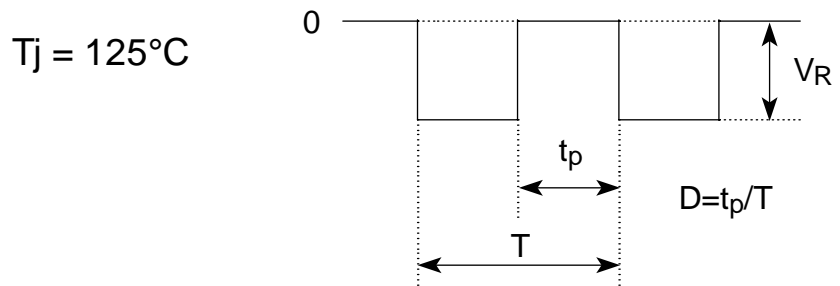
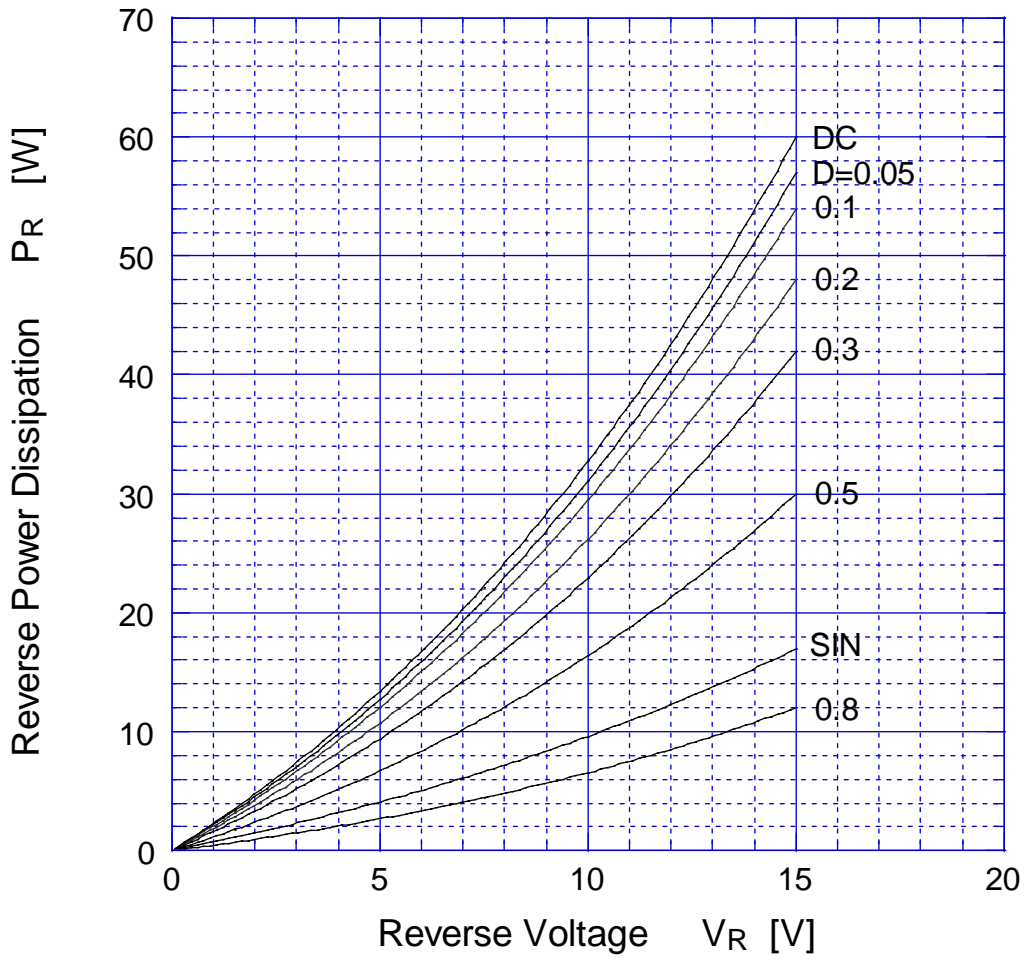
S60HC1R5 Forward Power Dissipation



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

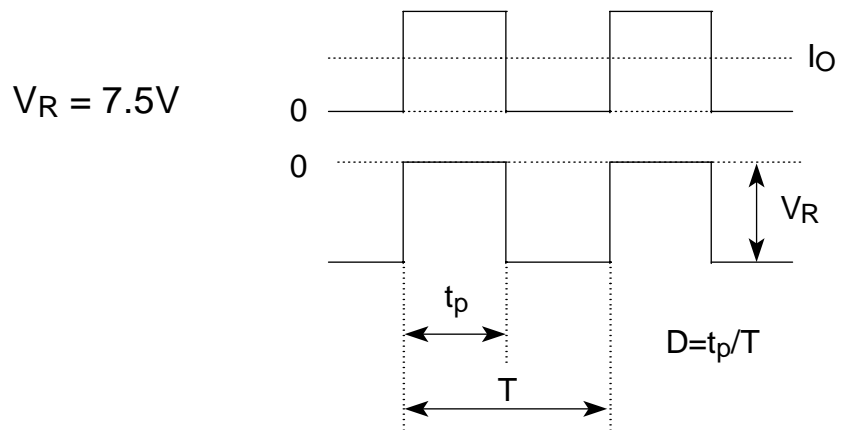
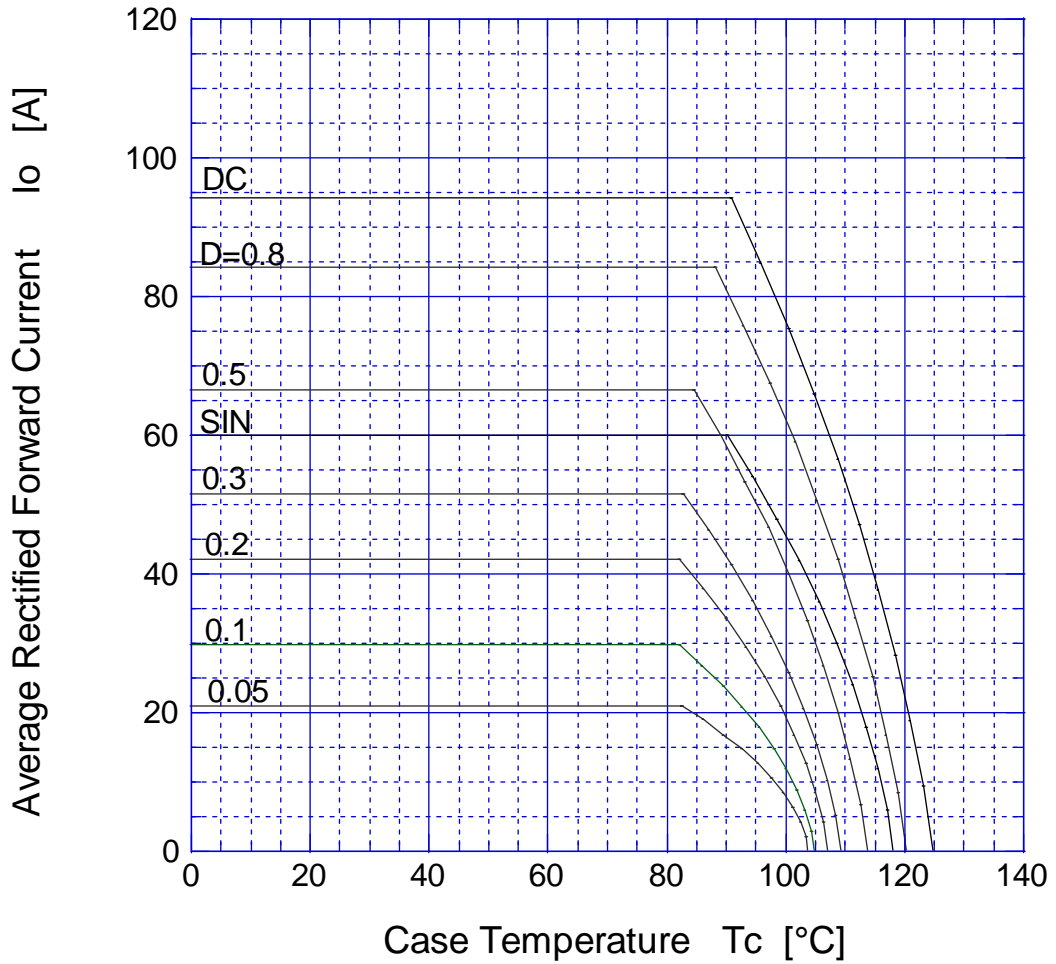


S60HC1R5 Reverse Power Dissipation

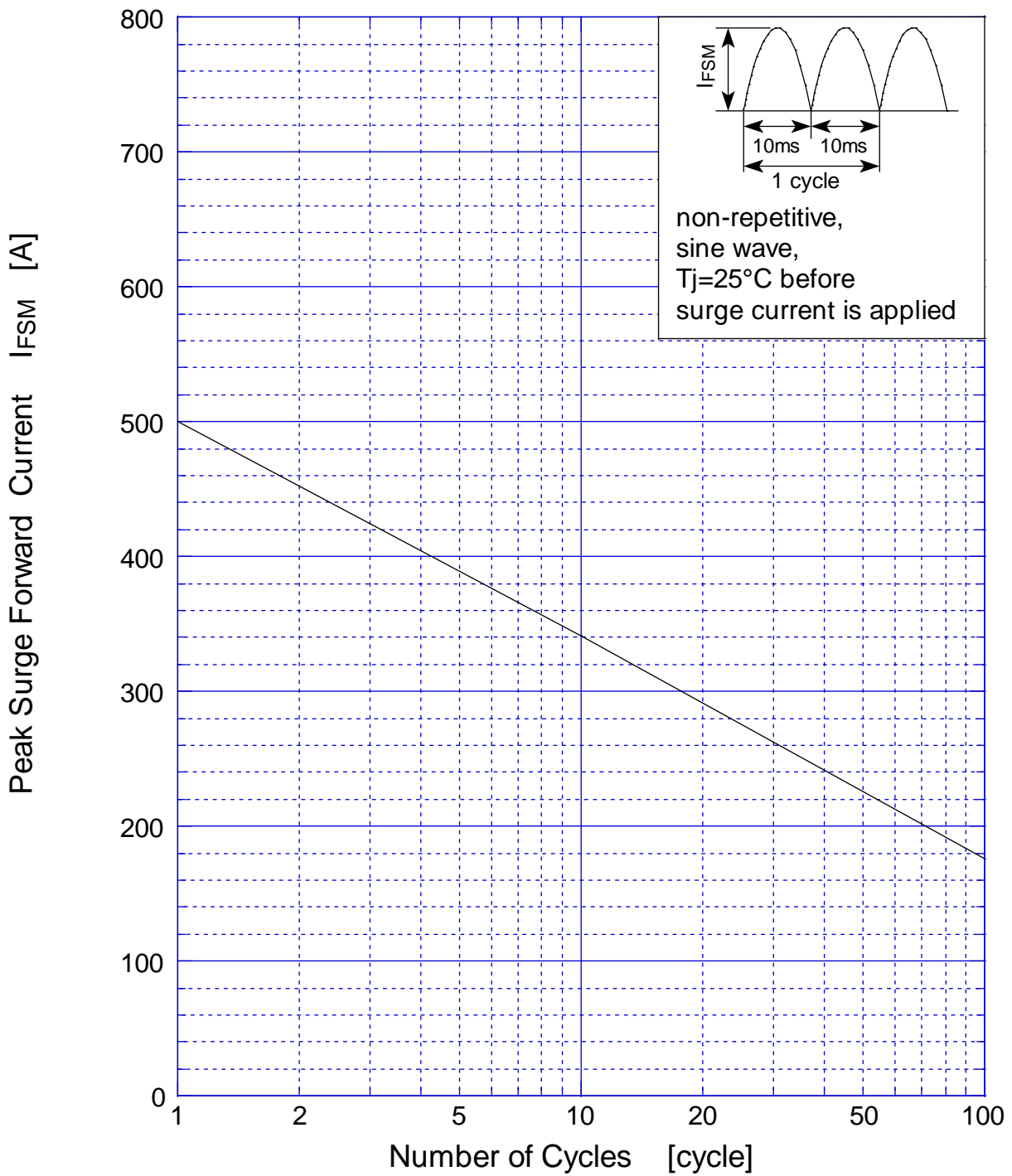


S60HC1R5

Derating Curve



S60HC1R5 Peak Surge Forward Capability



S60HC1R5 Junction Capacitance

