

SHINDENGEN

Schottky Rectifiers (SBD)

Dual

S60SC4M

40V 30A

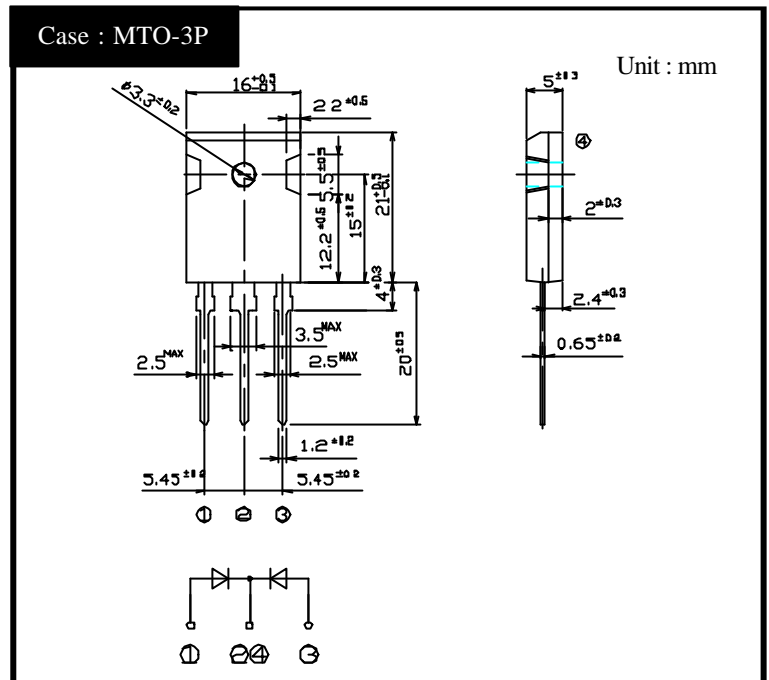
FEATURES

- Tj150
- P_{RRSM} avalanche guaranteed
- Small jc
- High current capacity

APPLICATION

- Switching power supply
- DC/DC converter
- Home Appliances, Office Equipment
- Telecommunication

OUTLINE DIMENSIONS



RATINGS

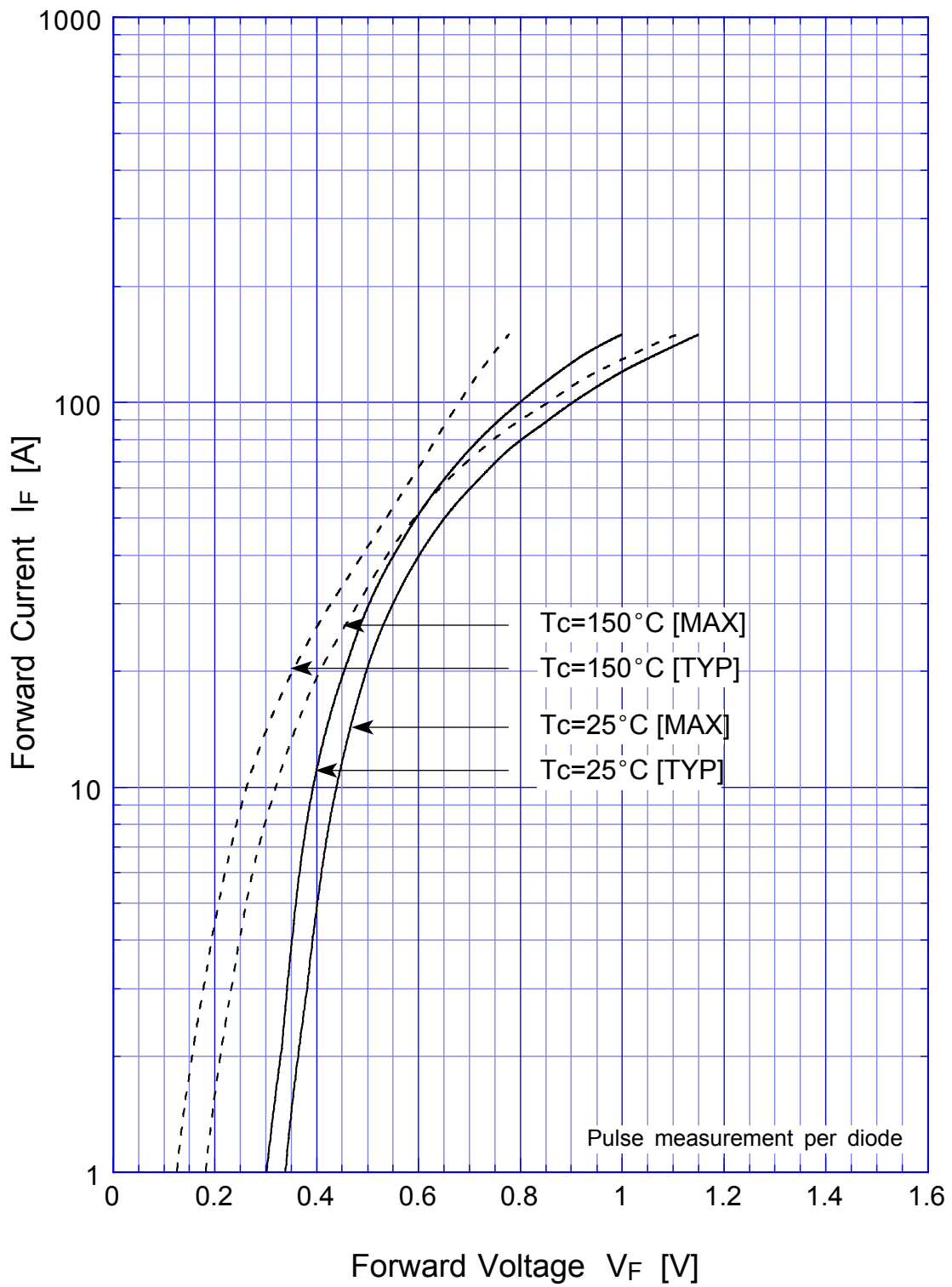
Absolute Maximum Ratings (If not specified Tc=25)

Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-40 ~ 150	
Operating Junction Temperature	Tj		150	
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, Tc=126	60	A
Peak Surge Forward Current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=125	500	A
Repetitive Peak Surge Reverse Power	P _{RRSM}	Pulse width 10 μs, Rating of per diode, Tj=25	1000	W
Mounting Torque	TOR	(Recommended torque :0.5N·m)	0.8	N·m

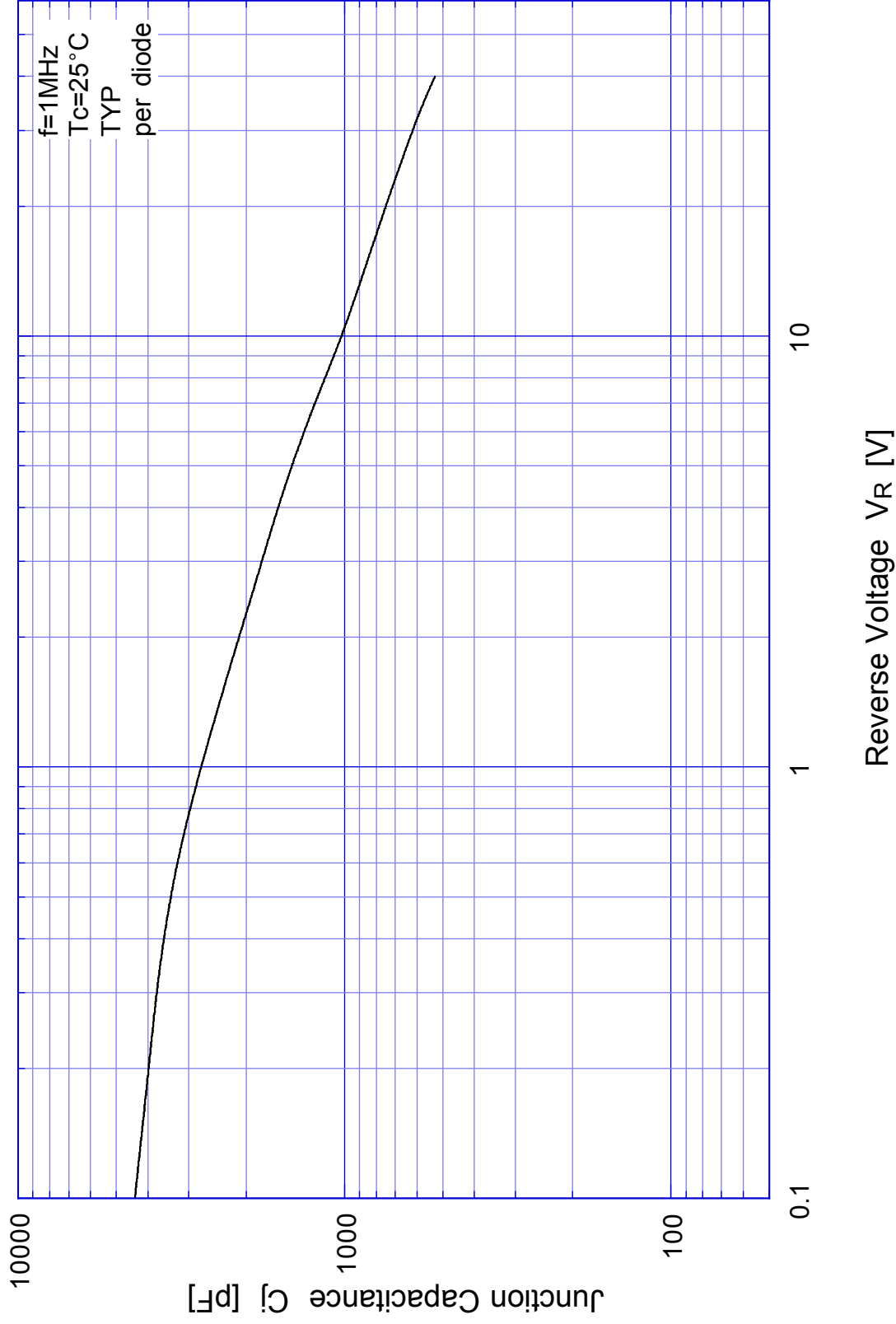
Electrical Characteristics (If not specified Tc=25)

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V _F	I _F =30A, Pulse measurement, Rating of per diode	Max.0.55	V
Reverse Current	I _R	V _R =V _{RM} , Pulse measurement, Rating of per diode	Max.25	mA
Junction Capacitance	C _j	f=1MHz, V _R =10V, Rating of per diode	Typ.1000	pF
Thermal Resistance	jc	junction to case	Max.0.5	/W

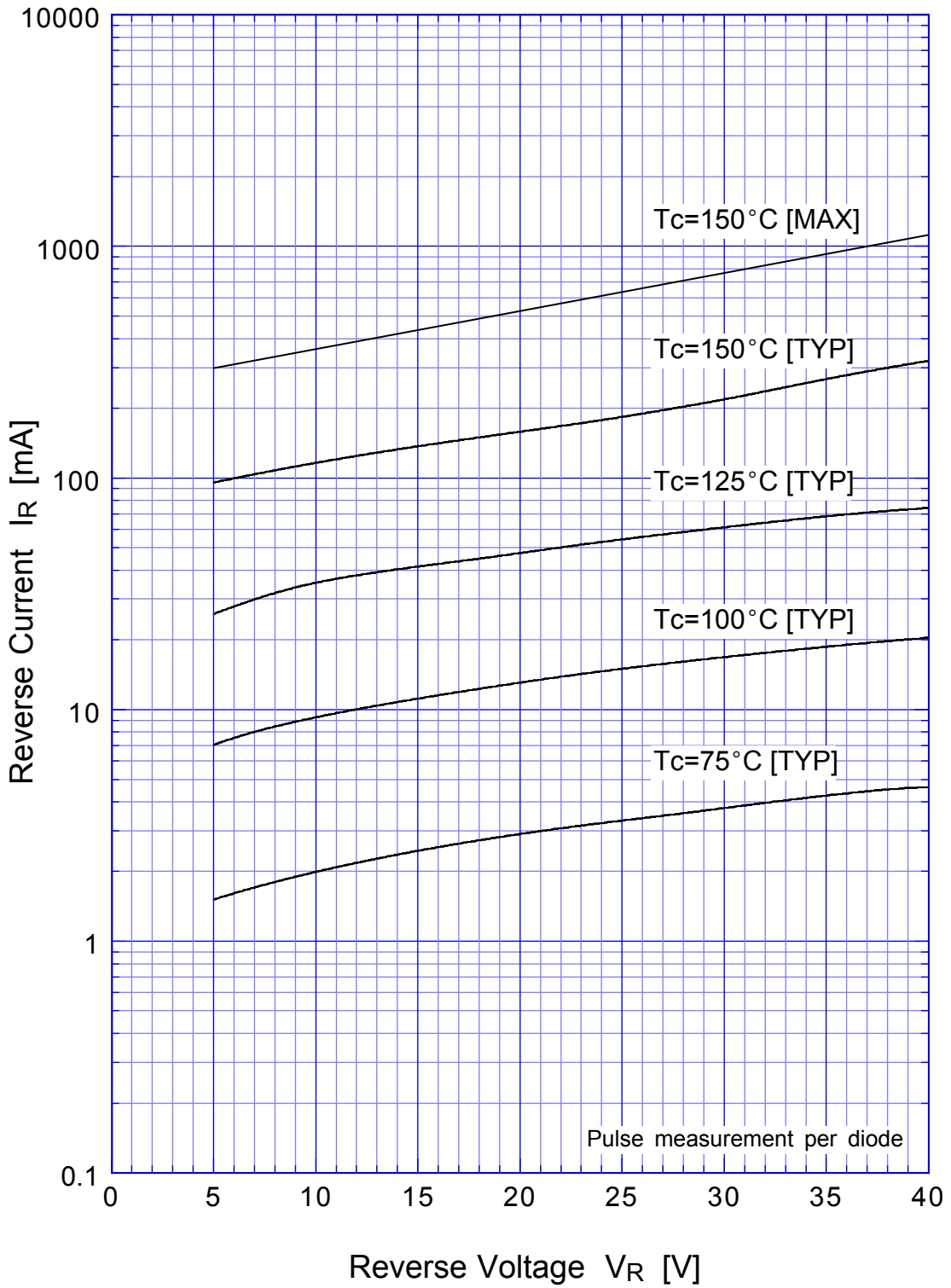
S60SC4M Forward Voltage



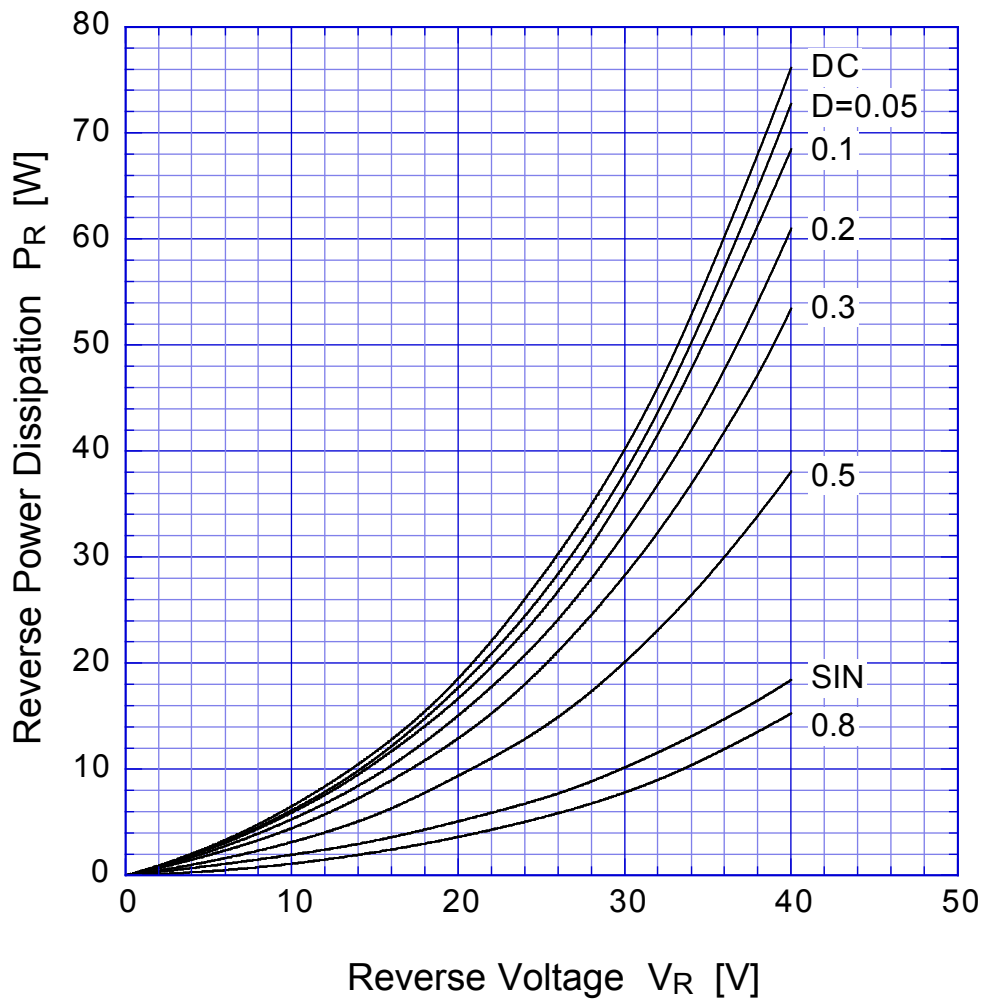
S60SC4M Junction Capacitance



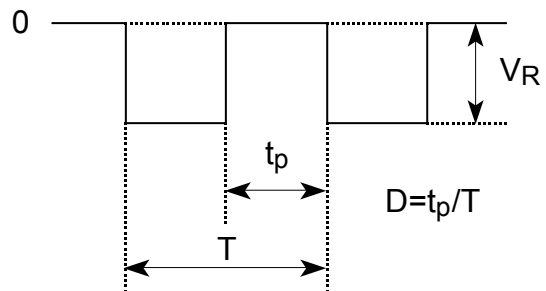
S60SC4M Reverse Current



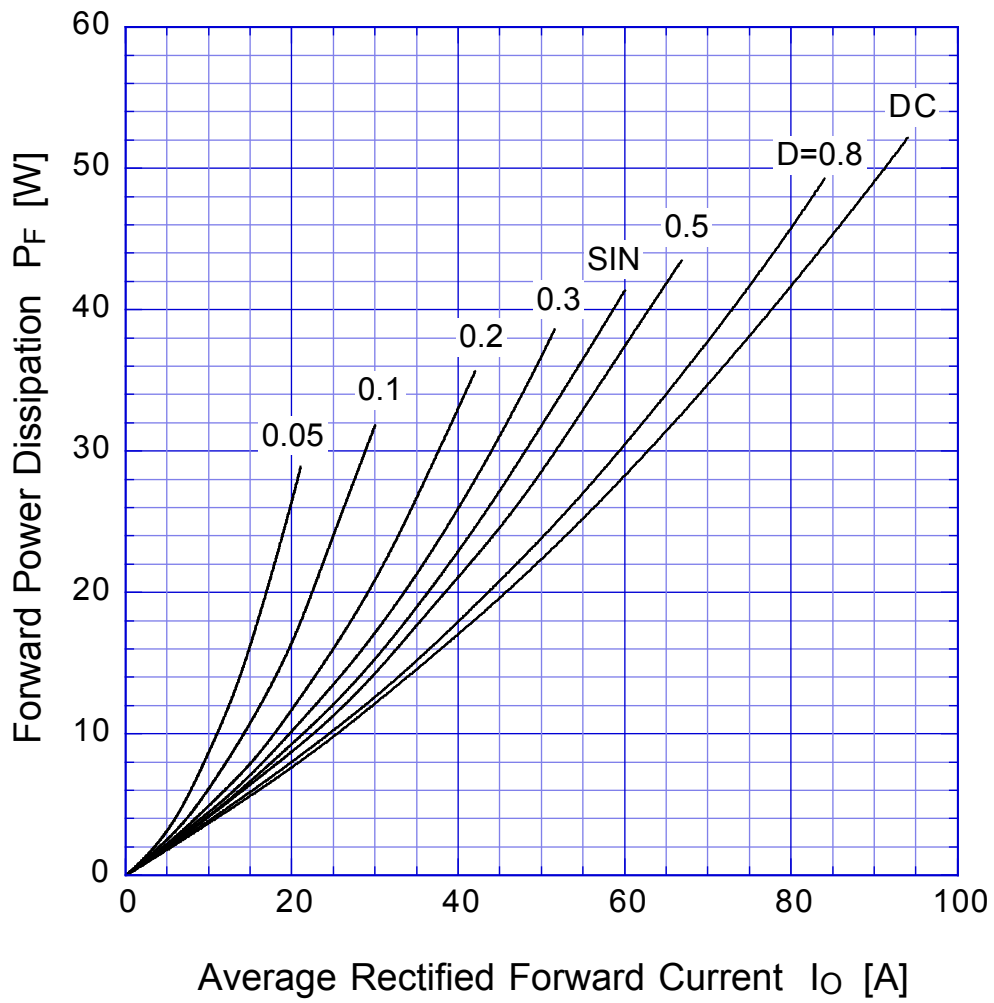
S60SC4M Reverse Power Dissipation



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



S60SC4M Forward Power Dissipation

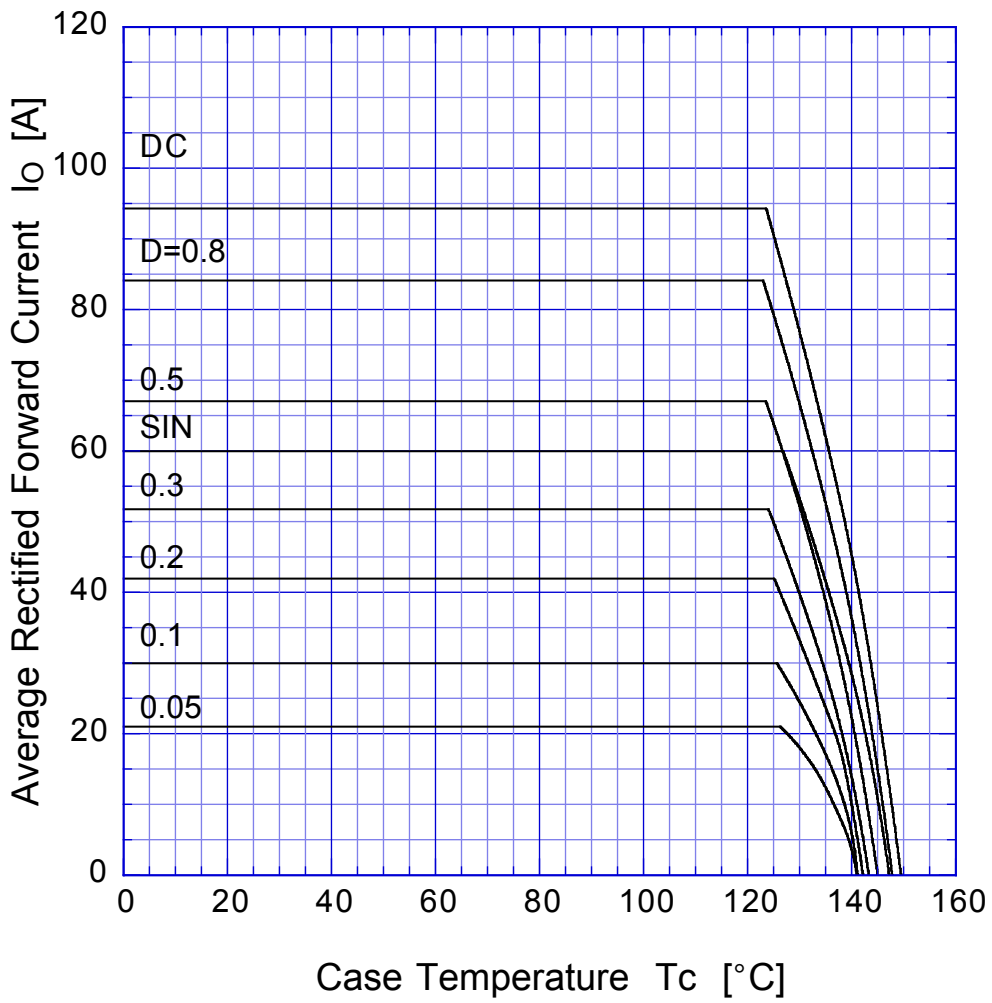


$T_j = 150^\circ\text{C}$



S60SC4M

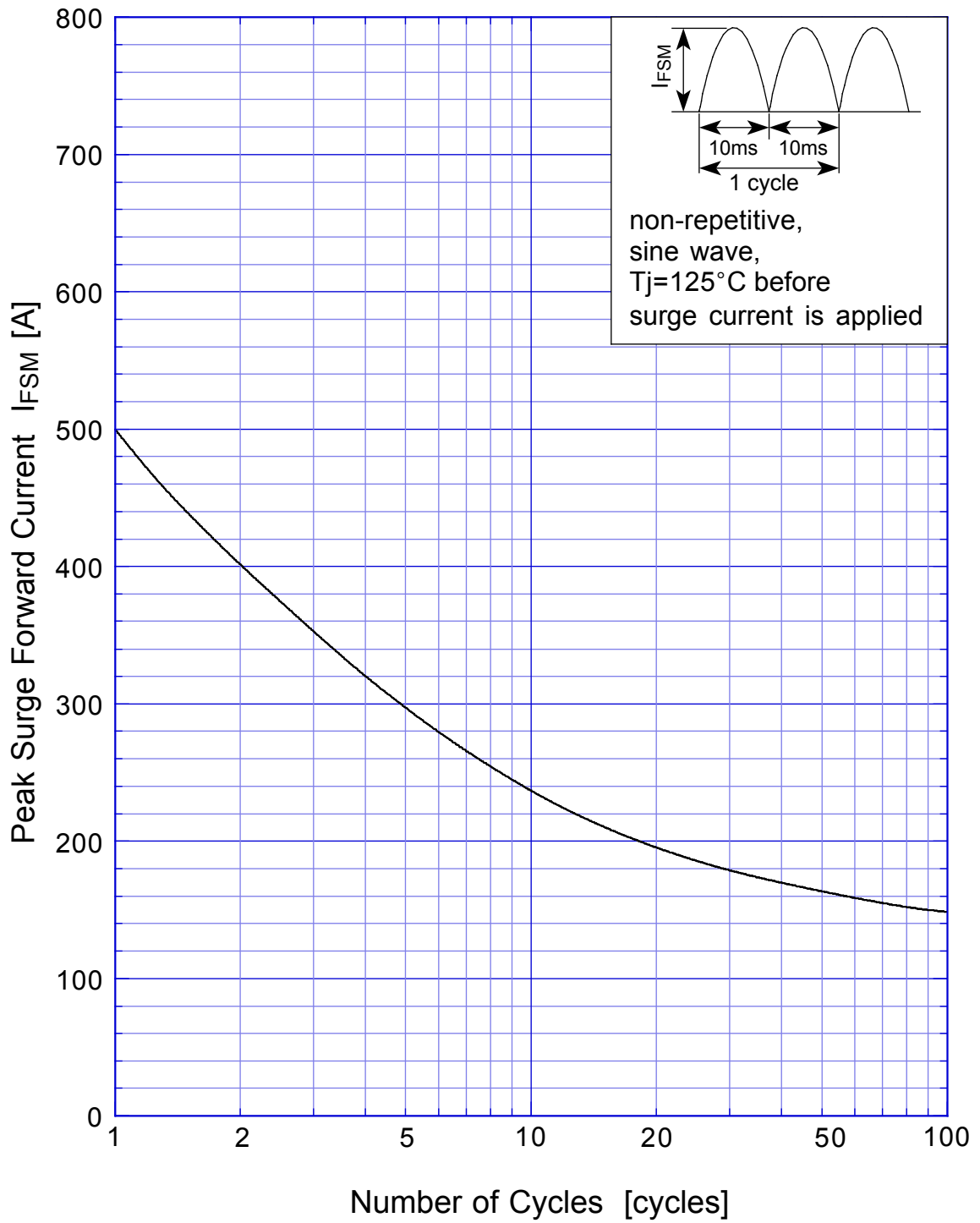
Derating Curve



$V_R = 20V$



S60SC4M Peak Surge Forward Capability



SBD Repetitive Surge Reverse Power Derating Curve



SBD

Repetitive Surge Reverse Power Capability

