

SHINDENGEN

Schottky Rectifiers (SBD)

Dual

S60SC6M

60V 60A

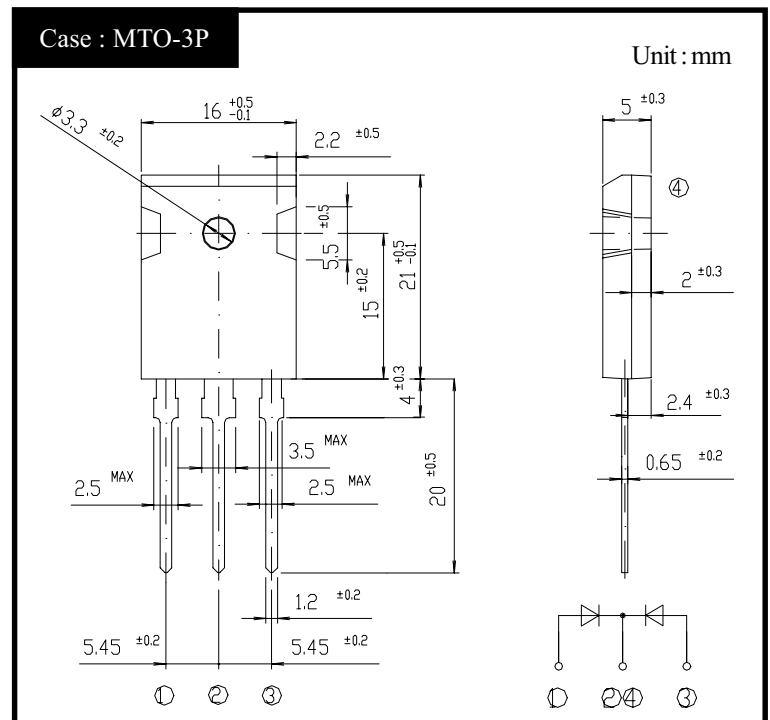
FEATURES

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

APPLICATION

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

OUTLINE DIMENSIONS



RATINGS

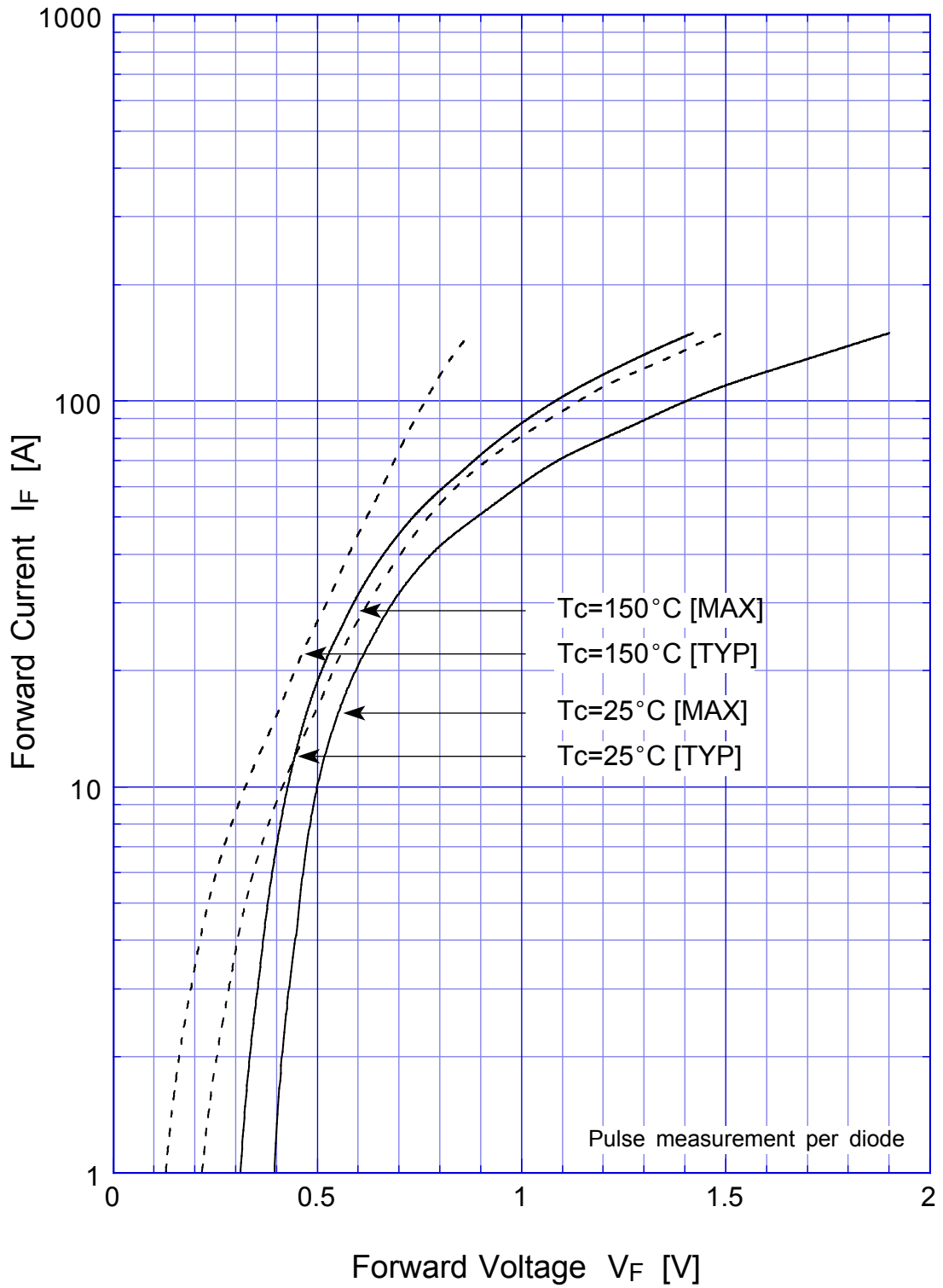
● Absolute Maximum Ratings (If not specified T_c=25°C)

Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	T _{stg}		-40~150	°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 =118°C	60	A
Peak Surge Forward Current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, T _j =125°C	500	A
Repetitive Peak Surge Reverse Power	P _{RRSM}	Pulse width 10 μs, Rating of per diode, T _j =25°C	1000	W
Mounting Torque	TOR	(Recommended torque:0.5N·m)	0.8	N·m

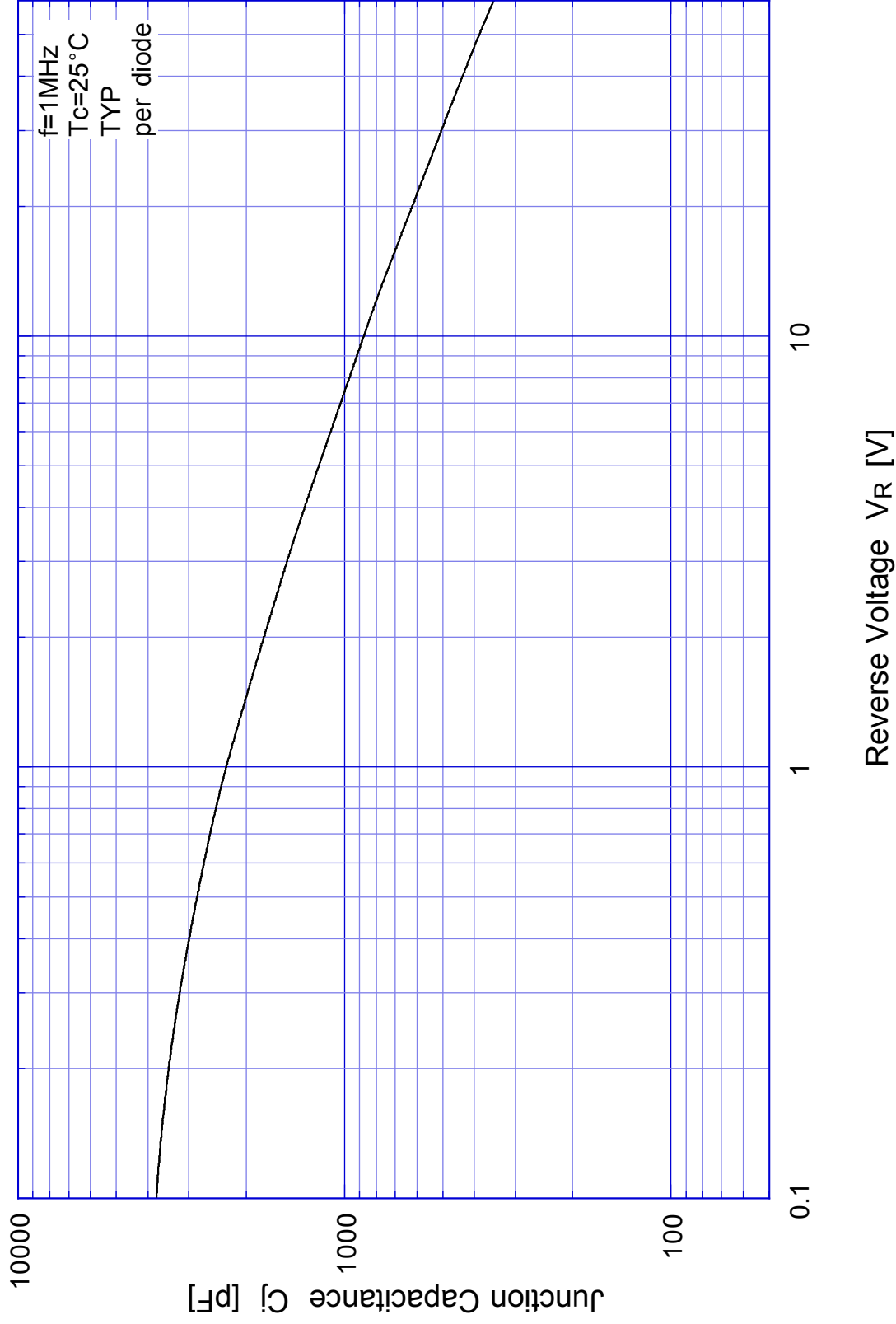
● Electrical Characteristics (If not specified T_c=25°C)

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V _F	I _F =30A, Pulse measurement, Rating of per diode	Max.0.67	V
Reverse Current	I _R	V _R =V _{RM} , Pulse measurement, Rating of per diode	Max.20	mA
Junction Capacitance	C _j	f=1MHz, V _R =10V, Rating of per diode	Typ.850	pF
Thermal Resistance	θ_{jc}	junction to case	Max.0.5	°C/W

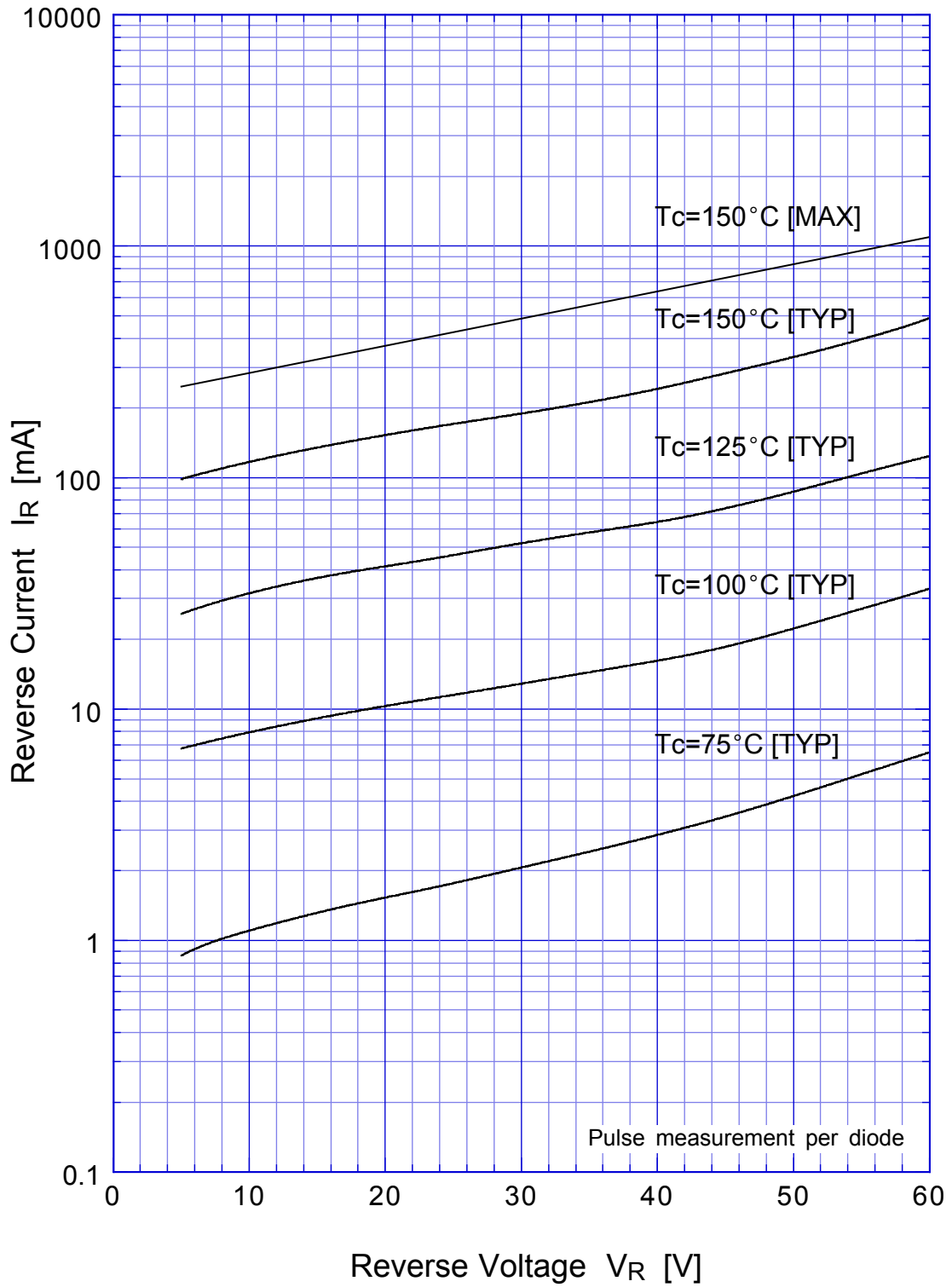
S60SC6M Forward Voltage



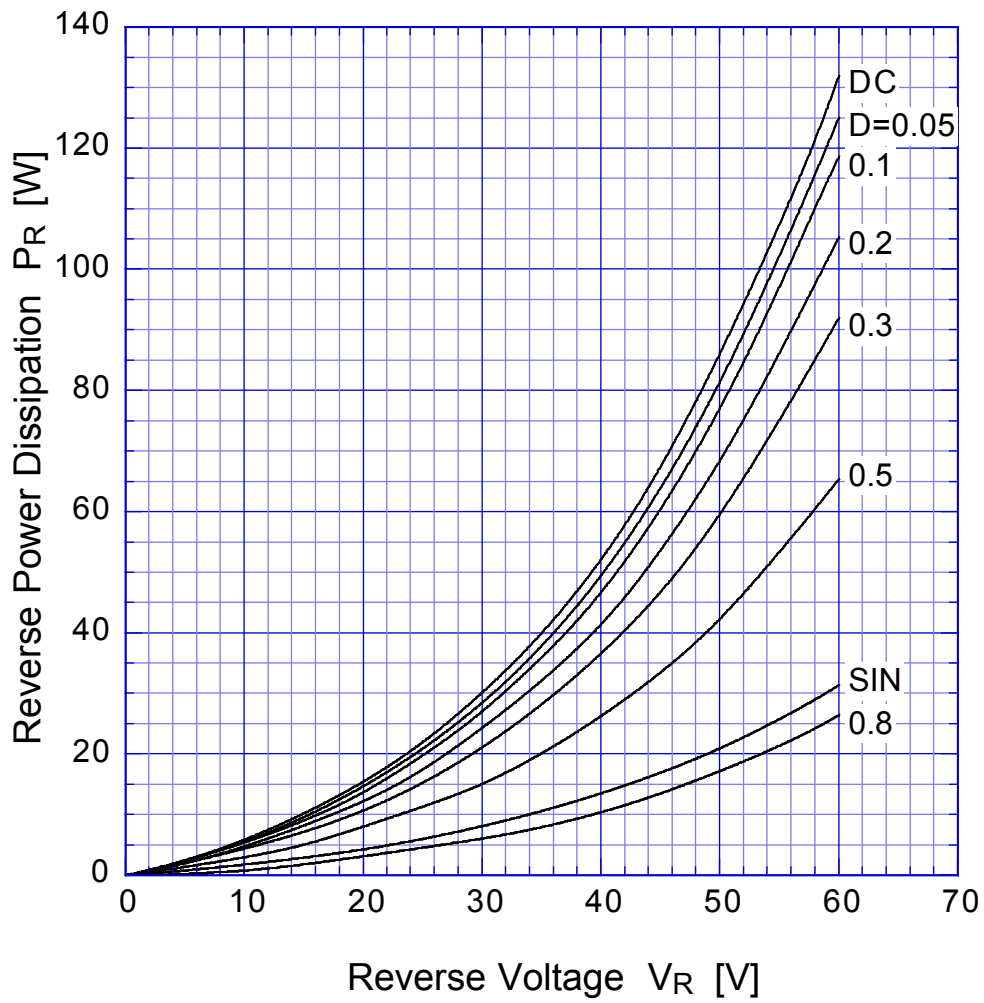
S60SC6M Junction Capacitance



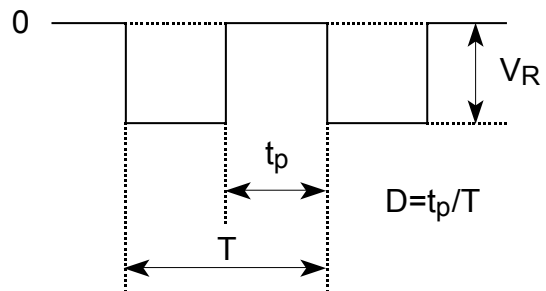
S60SC6M Reverse Current



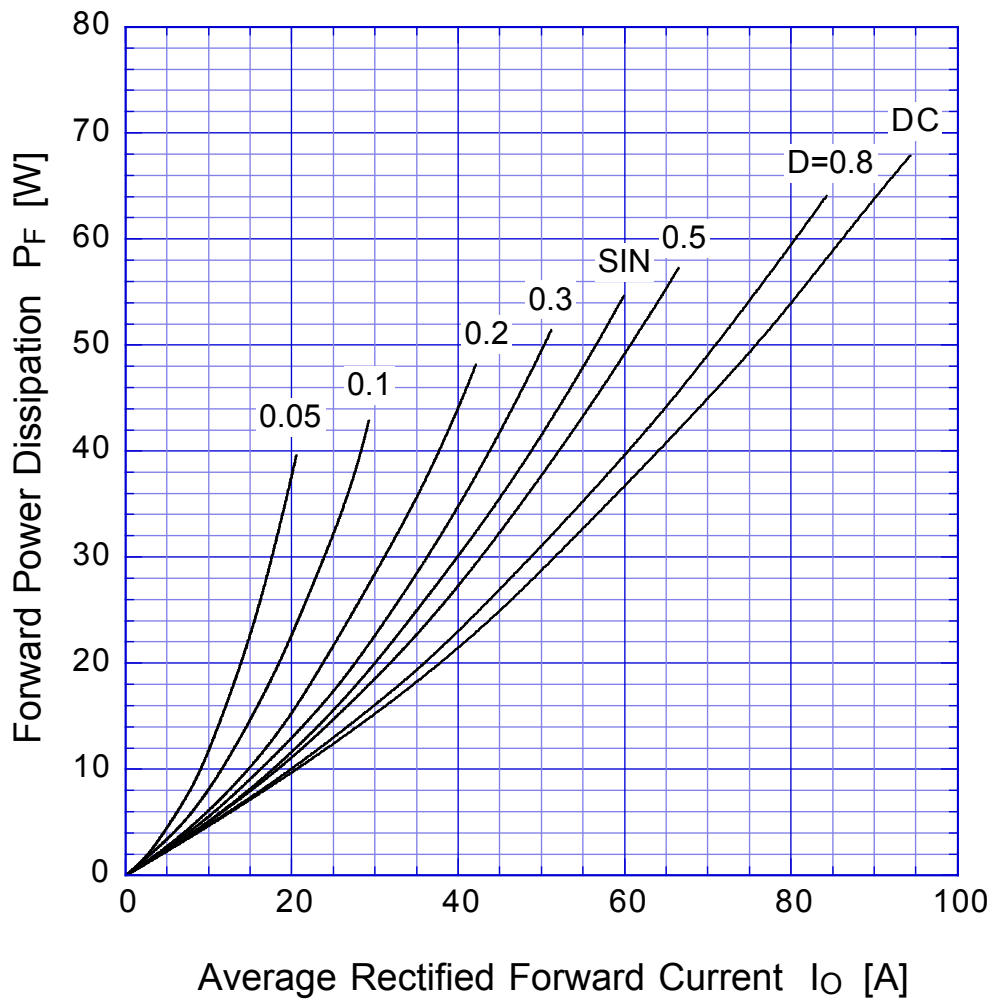
S60SC6M Reverse Power Dissipation



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



S60SC6M Forward Power Dissipation

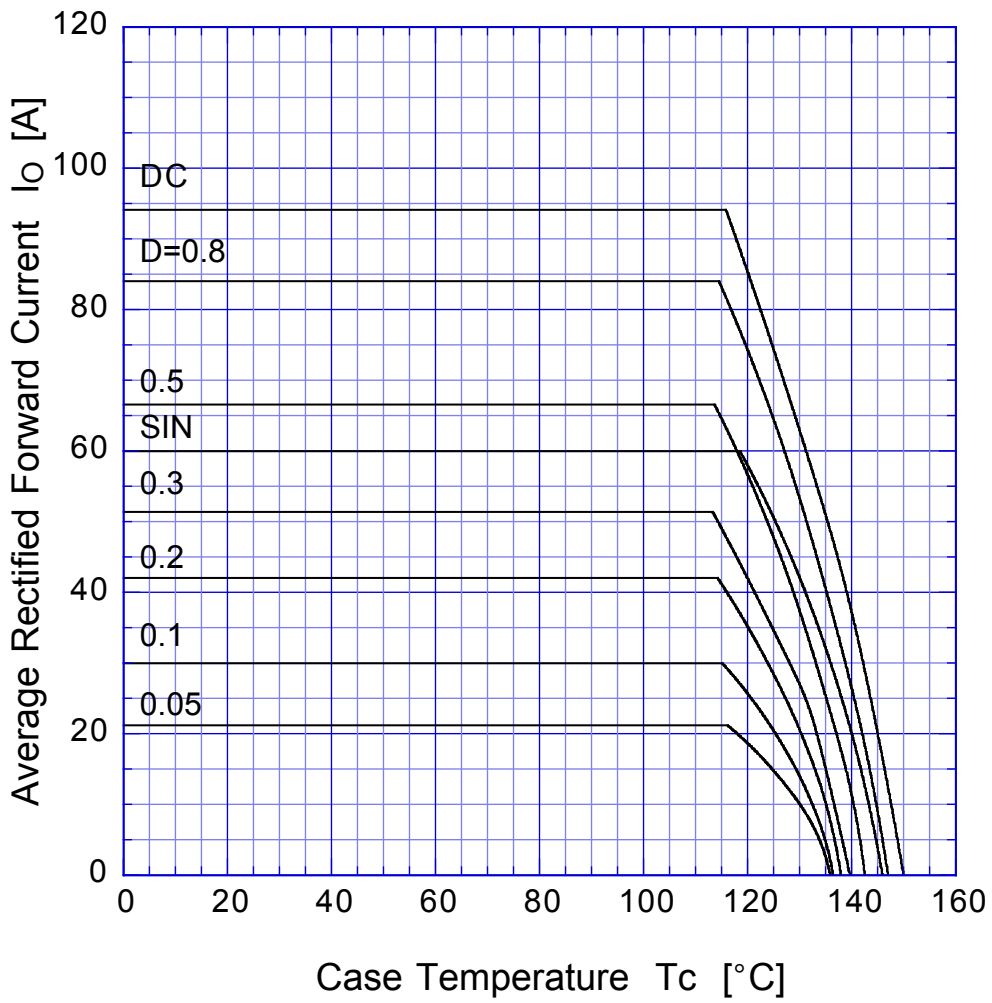


$T_j = 150^\circ\text{C}$



S60SC6M

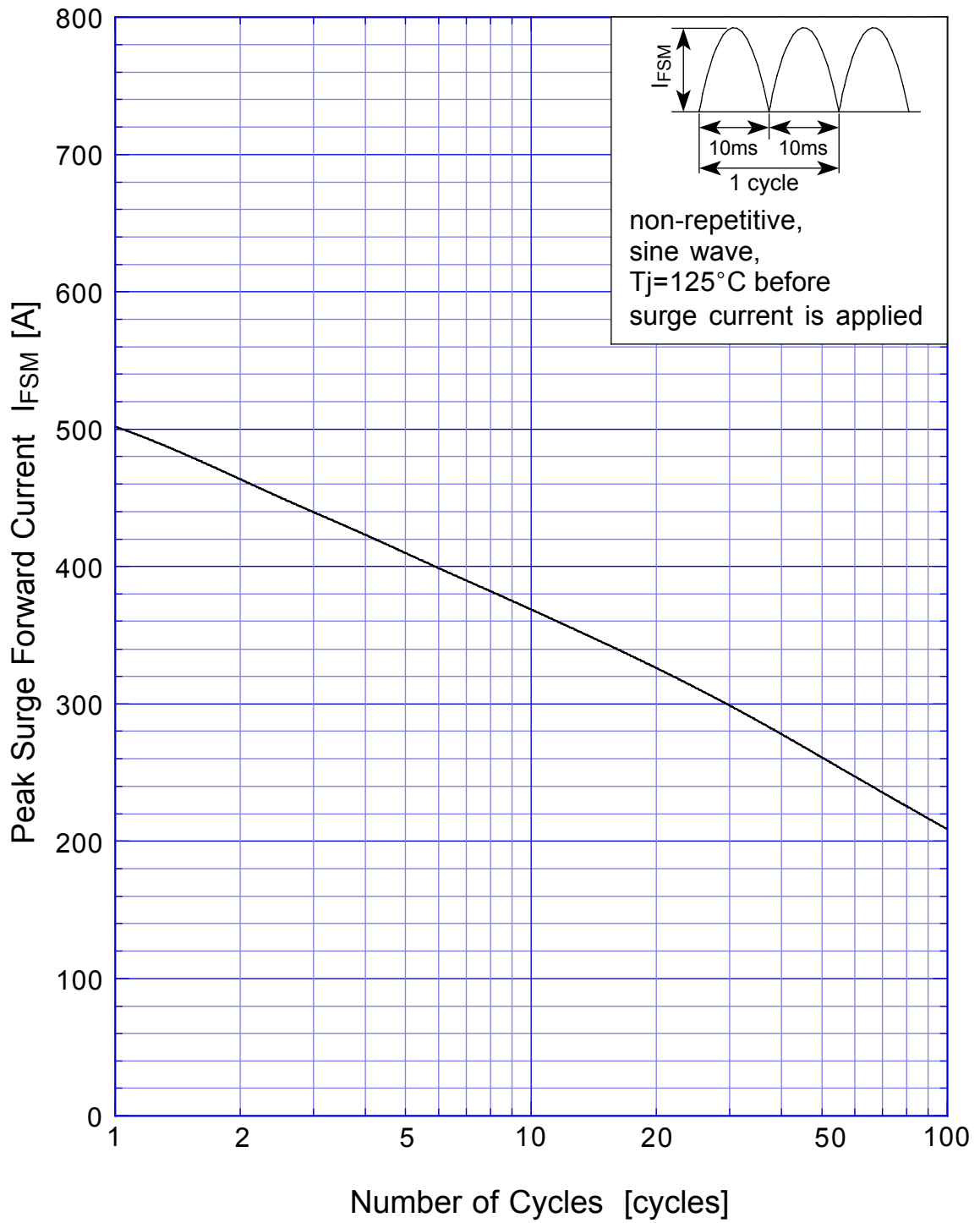
Derating Curve



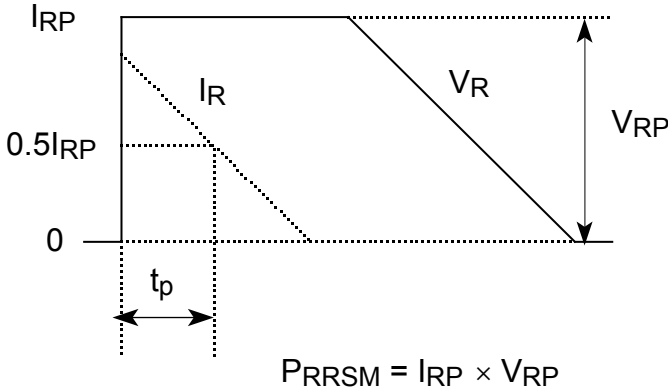
$V_R = 30V$



S60SC6M Peak Surge Forward Capability



SBD Repetitive Surge Reverse Power Derating Curve



SBD

Repetitive Surge Reverse Power Capability



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Datasheets for electronics components.