SHINDENGEN

Schottky Rectifiers (SBD)

Dual

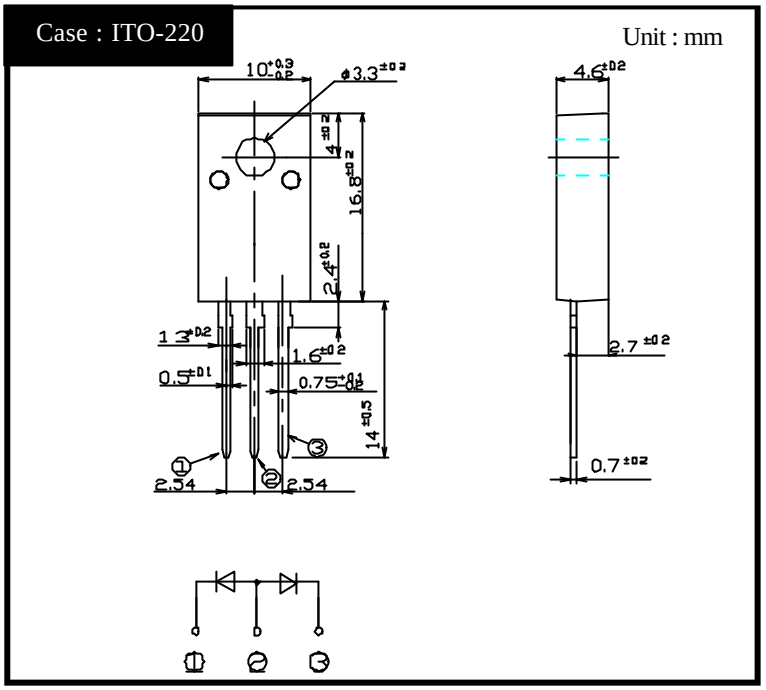
D10SC6MR

60V 10A

OUTLINE DIMENSIONS

Case : ITO-220

Unit : mm



FEATURES

- Tj150°C
- P_{RRSM} avalanche guaranteed
- Fully Isolated Molding

APPLICATION

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

RATINGS

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

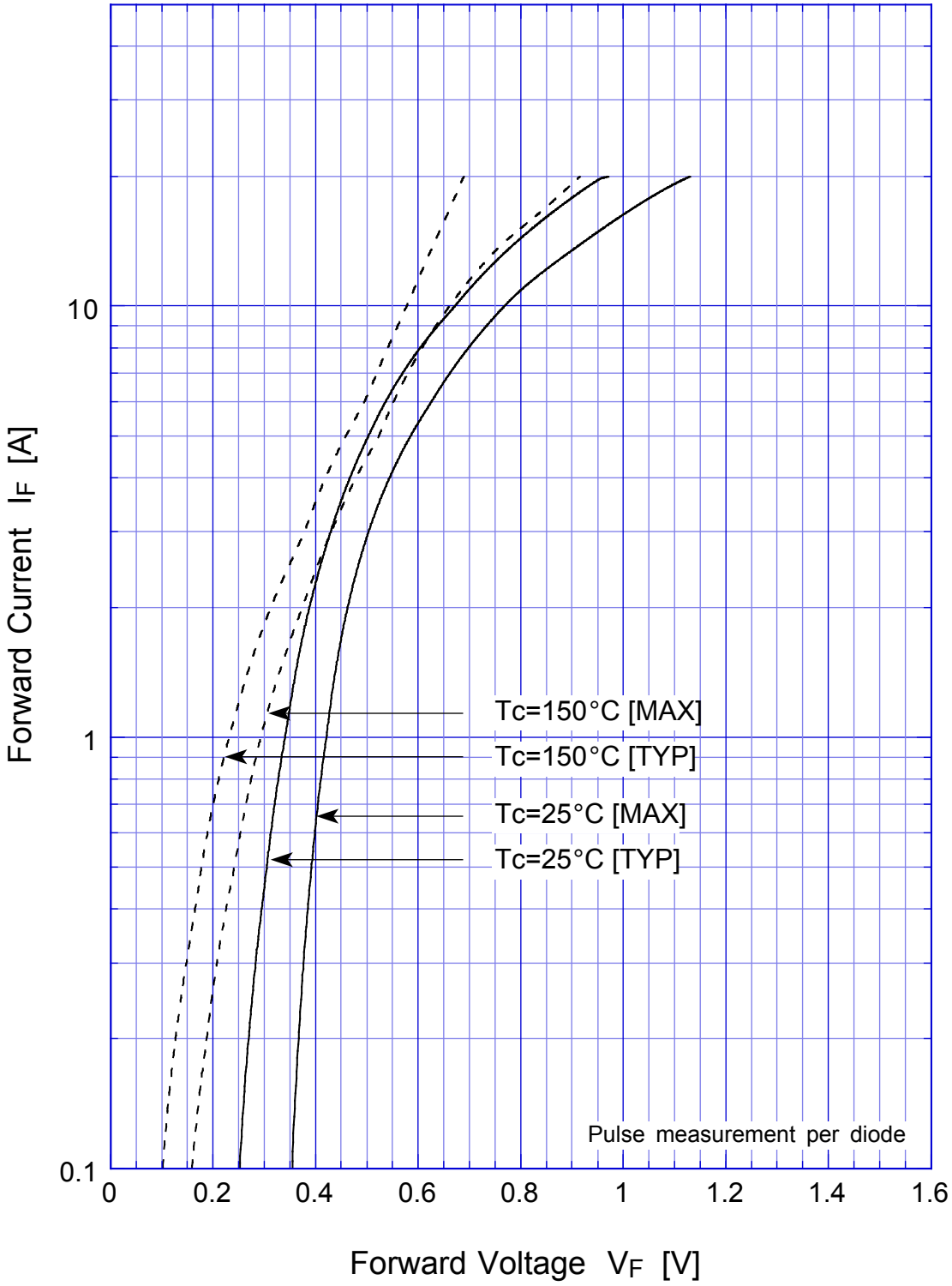
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-40～150	°C
Operating Junction Temperature	Tj		150	°C
Maximum Reverse Voltage	V_{RM}		60	V
Repetitive Peak Surge Reverse Voltage	V_{RRSM}	Pulse width 0.5ms, duty 1/40	65	V
Average Rectified Forward Current	Io	50Hz sine wave, R-load, Rating for each diode Io/2, Tc=120°C	10	A
Peak Surge Forward Current	I_{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=125°C	100	A
Repetitive Peak Surge Reverse Power	P_{RRSM}	Pulse width 10μs, Rating of per diode, Tj= 25°C	330	W
Dielectric Strength	Vdis	Terminals to case, AC 1 minute	1.5	kV
Mounting Torque	TOR	(Recommended torque 0.3N･m)	0.5	N･m

●Electrical Characteristics Tc=25°C

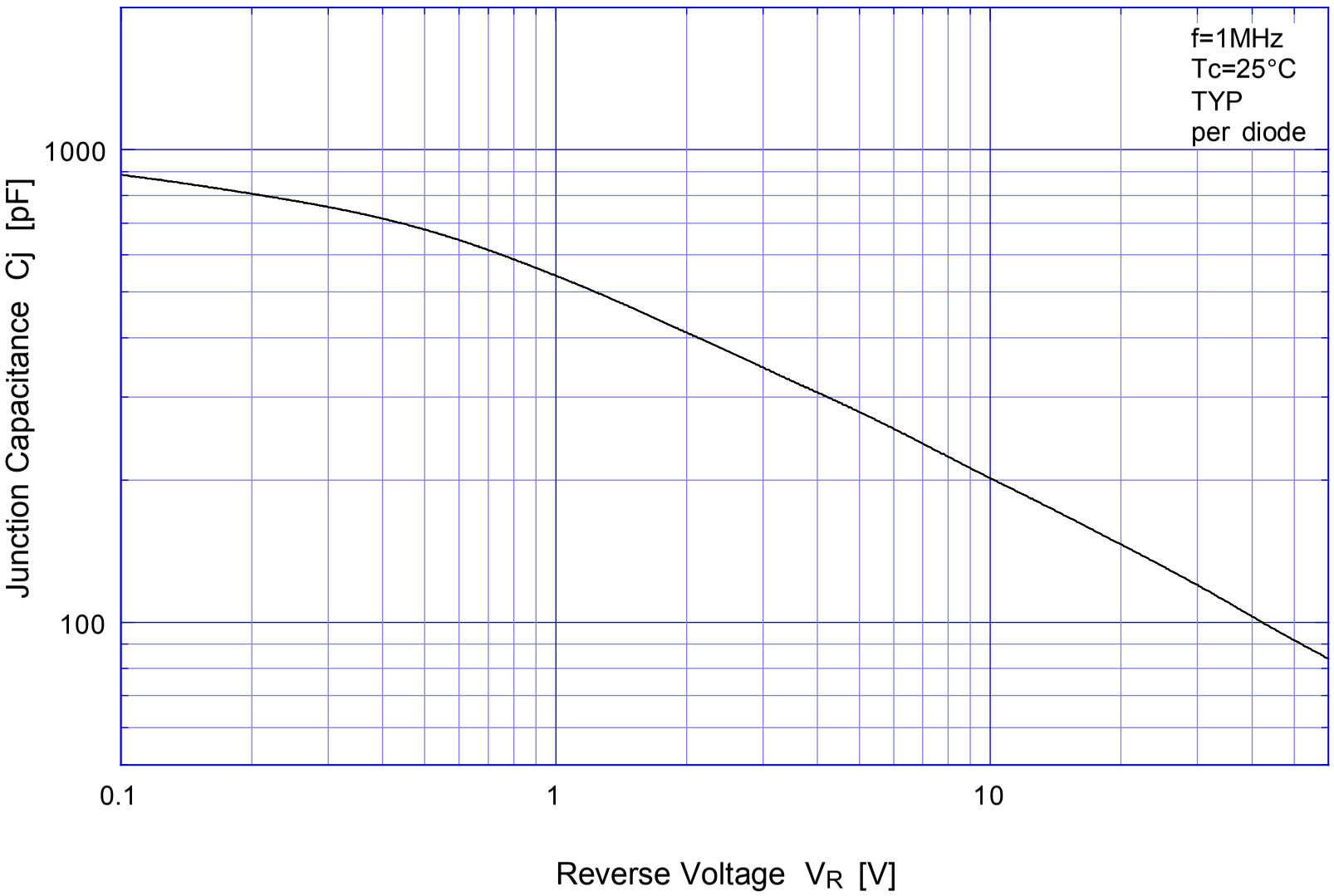
Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V_F	I_F=5A, Pulse measurement, Rating of per diode	Max.0.58	V
Reverse Current	I_R	V_R=V_{RM}, Pulse measurement, Rating of per diode	Max.4.5	mA
Junction Capacitance	Cj	f=1MHz, V_R=10V, Rating of per diode	Typ.200	pF
Thermal Resistance	θjc	junction to case	Max.3.3	°C/W
	θcf	case to heatsink, Mounting torque=0.5N･m	Max.1.5	

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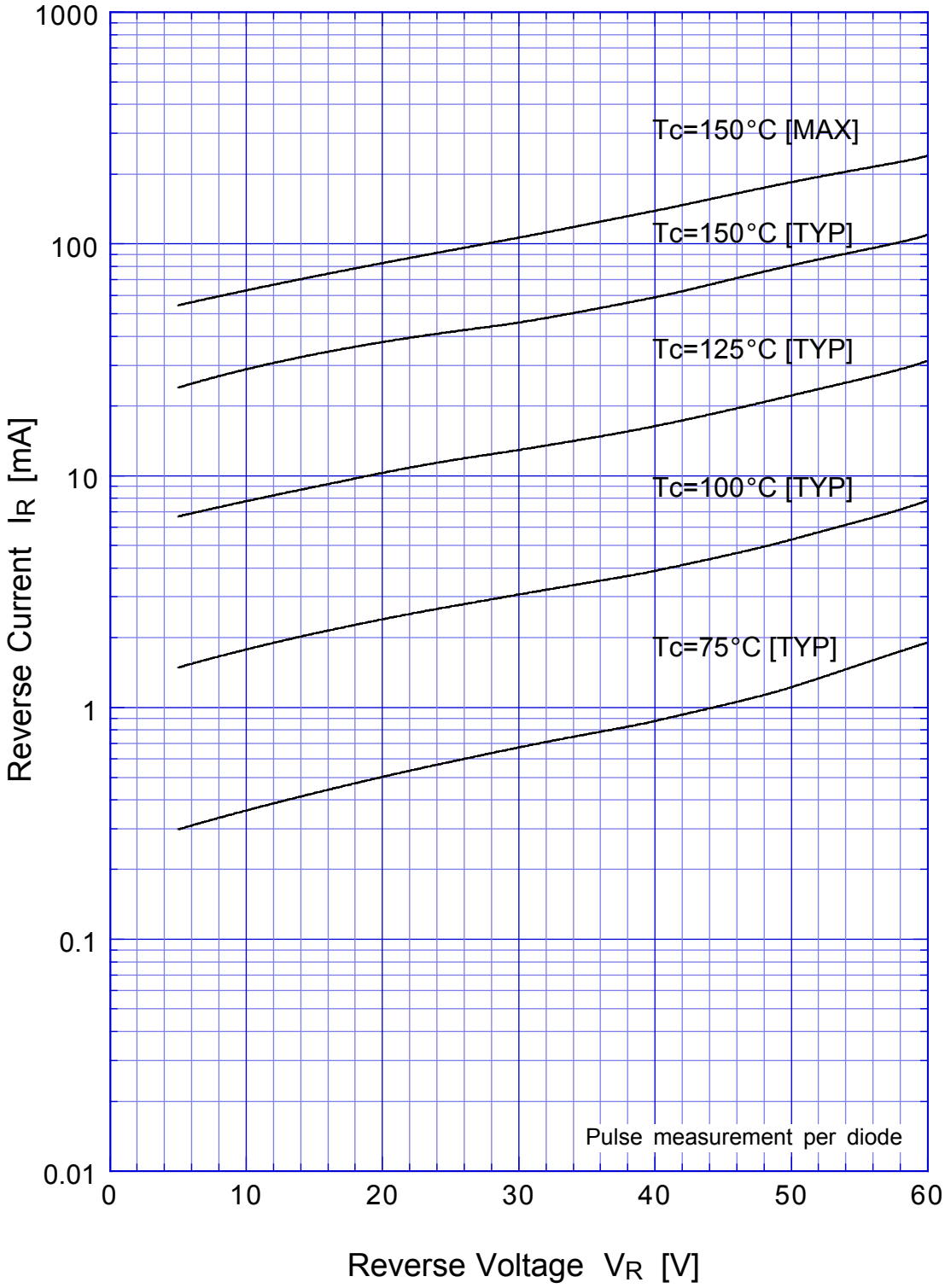
D10SC6MR Forward Voltage



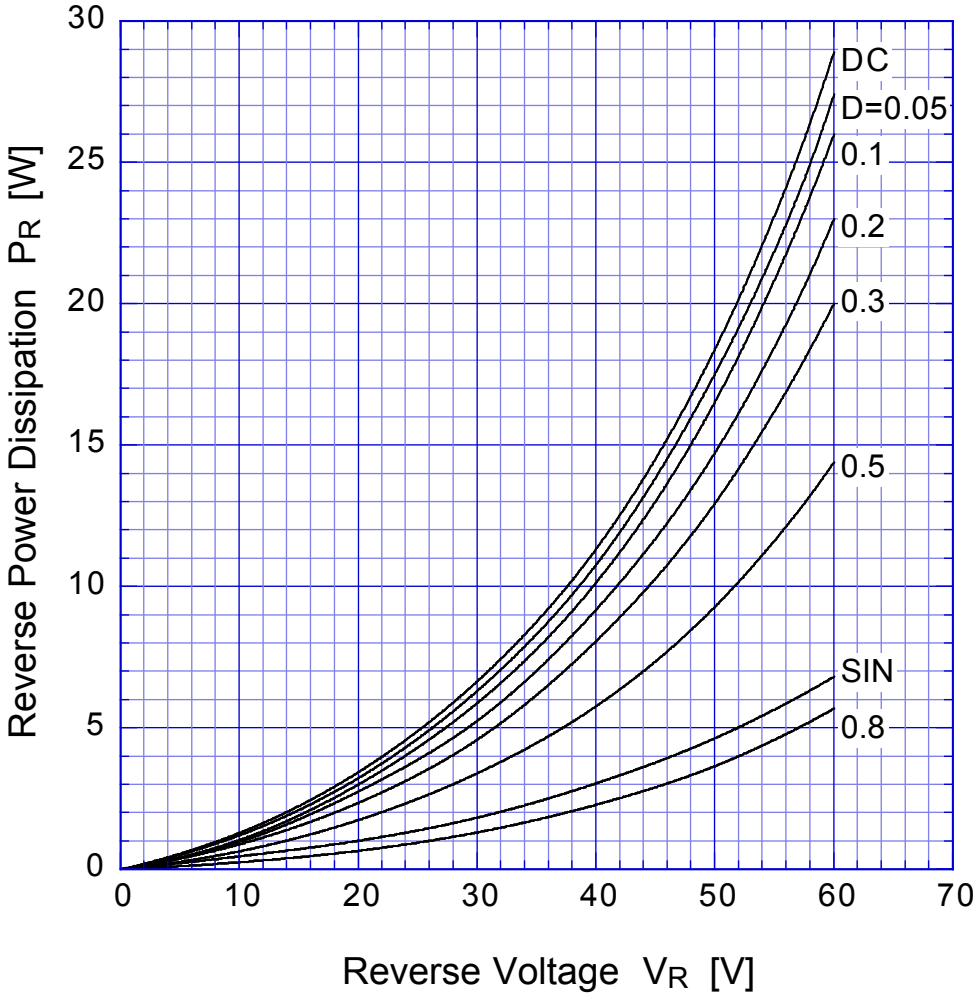
D10SC6MR Junction Capacitance



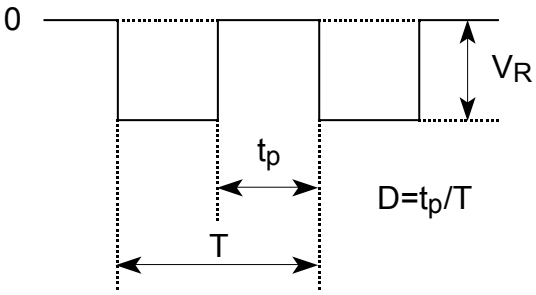
D10SC6MR Reverse Current



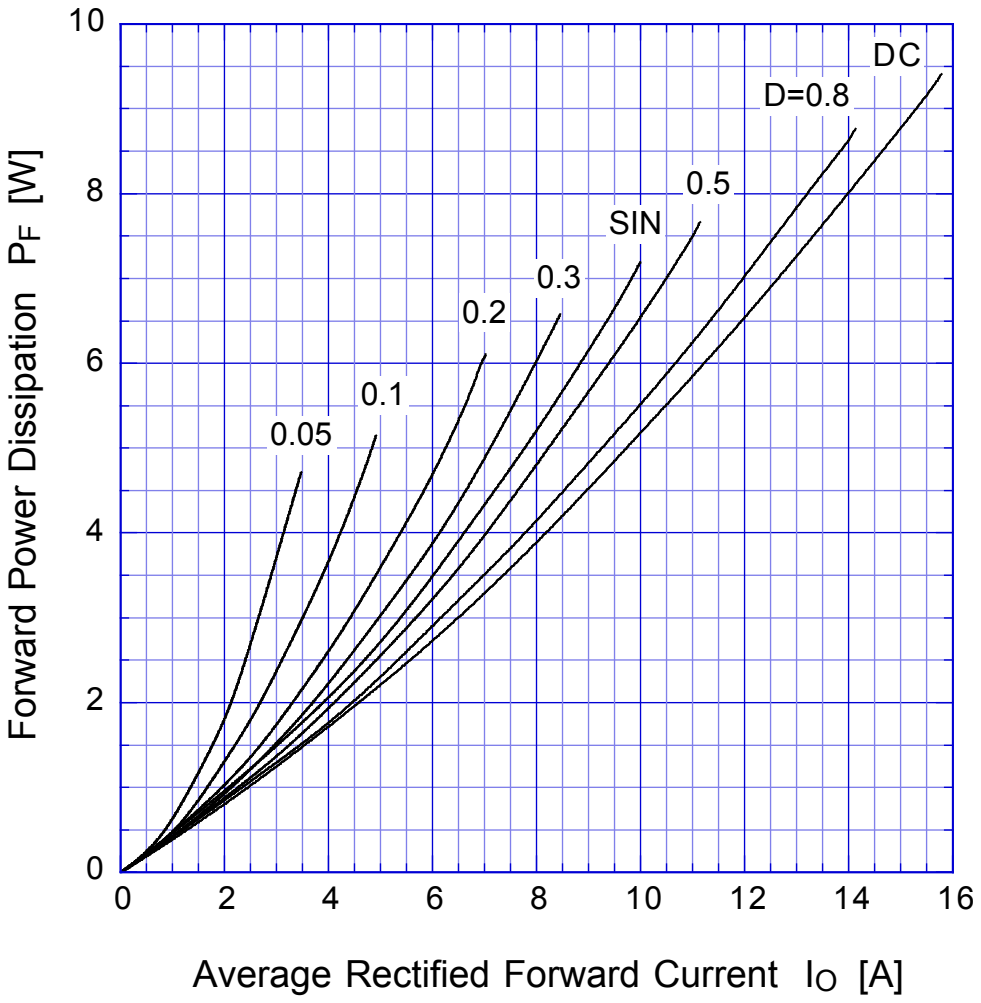
D10SC6MR Reverse Power Dissipation



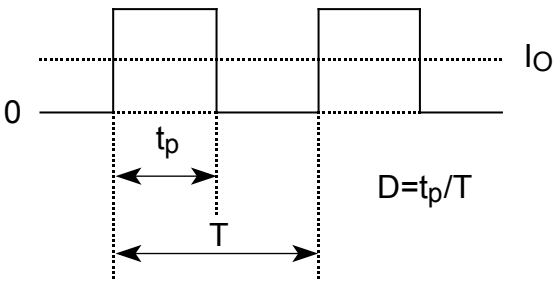
Tj = 150°C



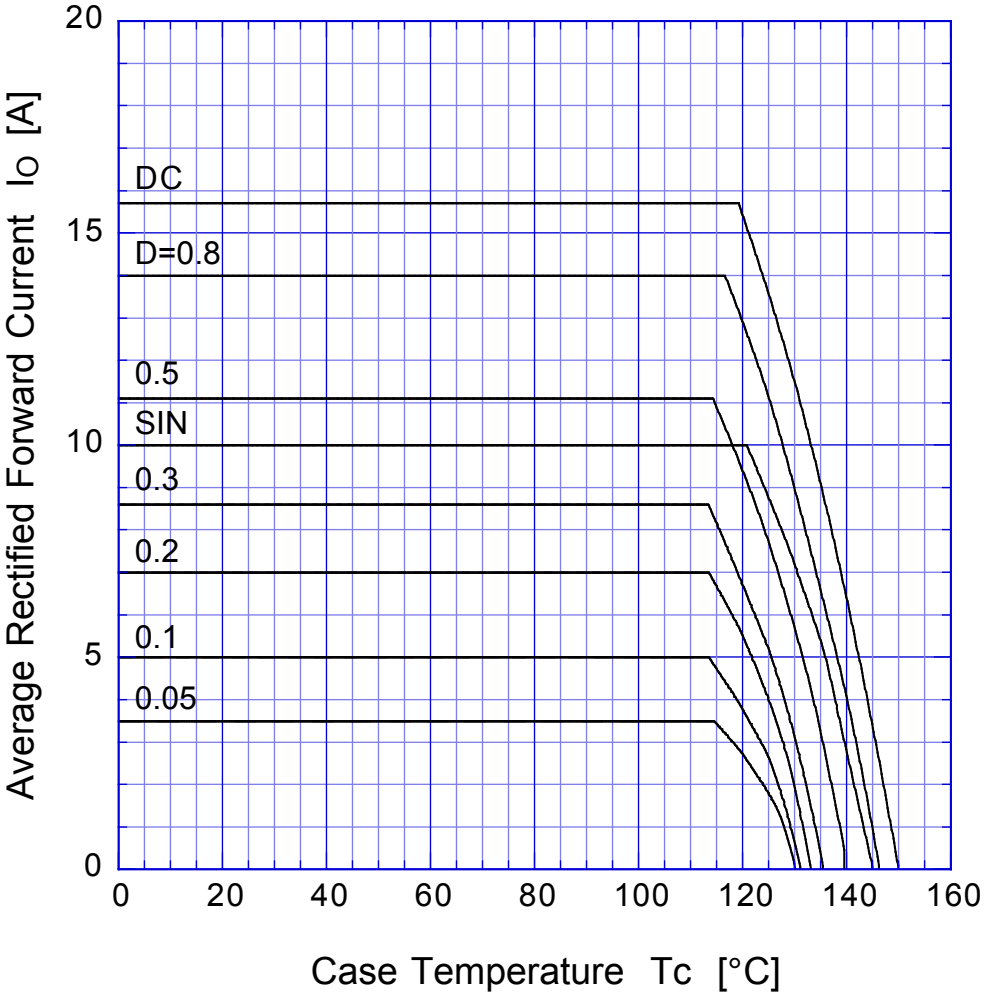
D10SC6MR Forward Power Dissipation



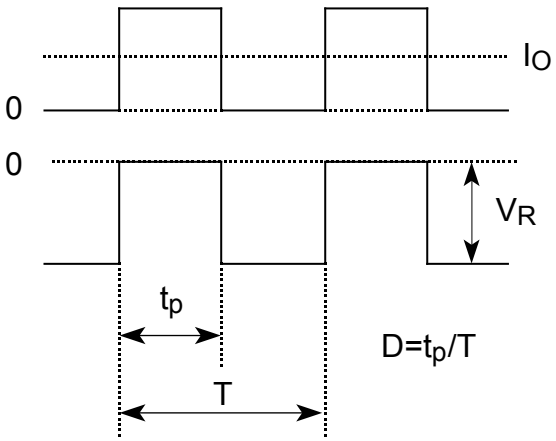
Tj = 150°C



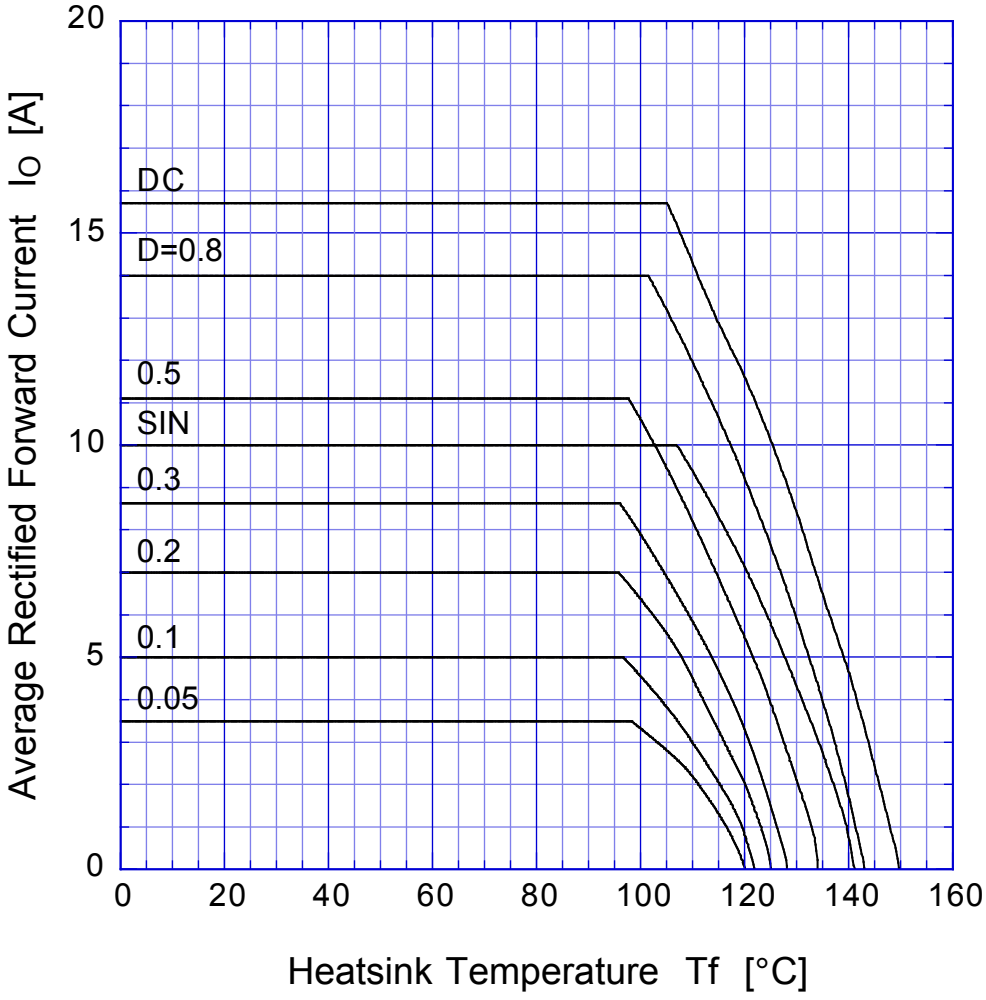
D10SC6MR Derating Curve

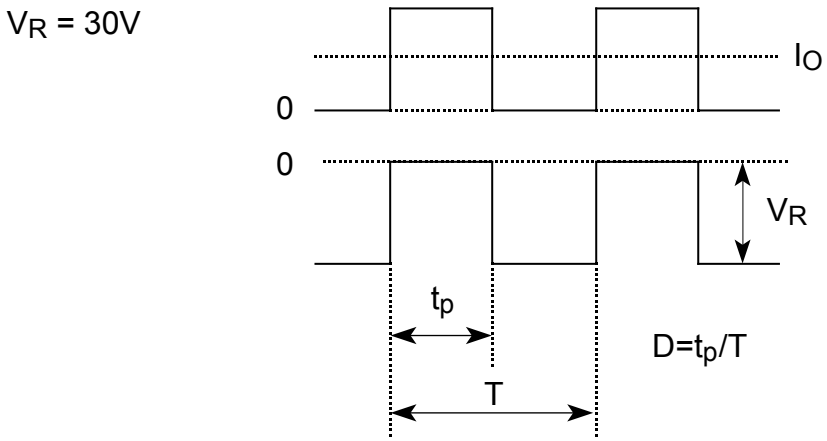


V_R = 30V

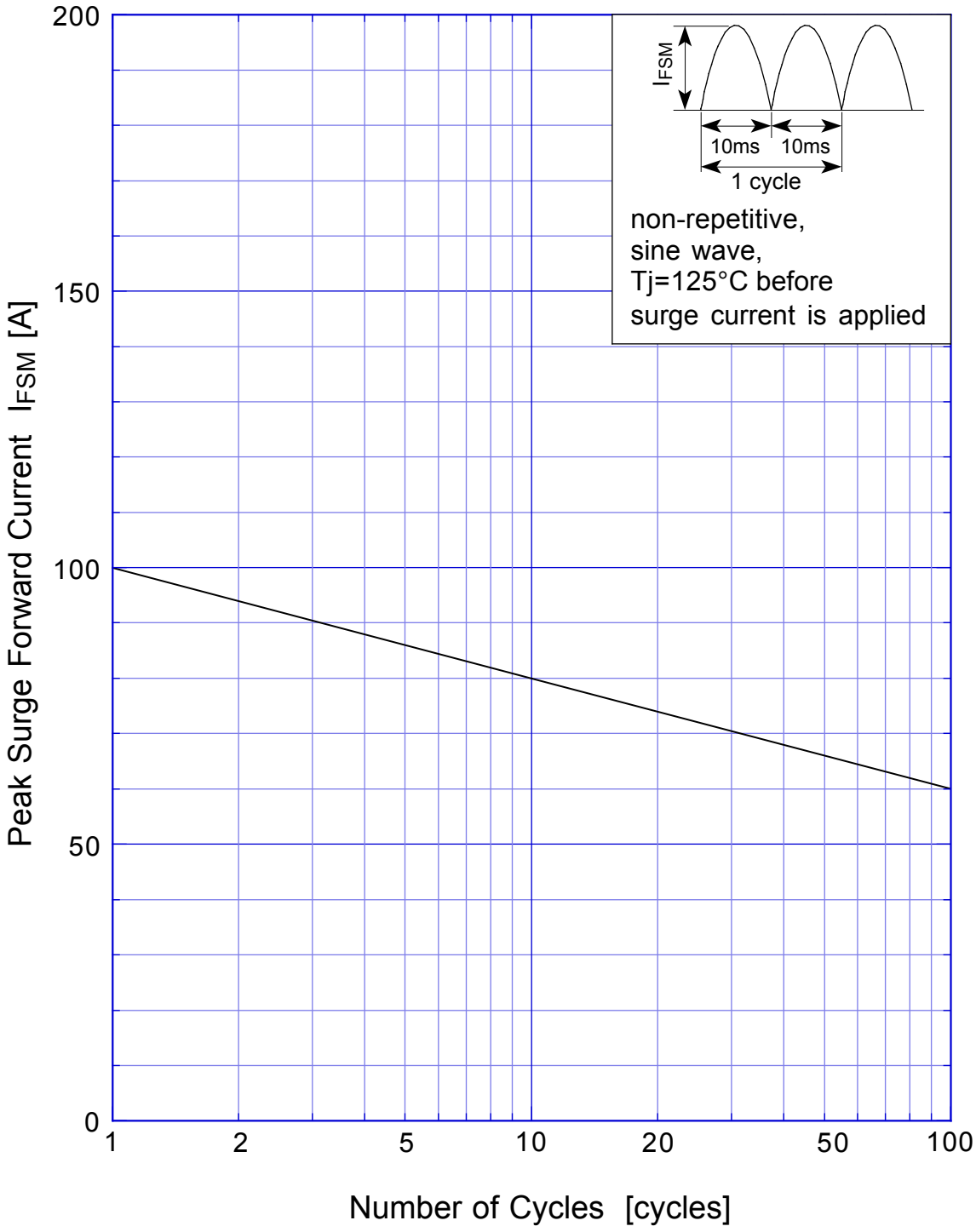


D10SC6MR Derating Curve

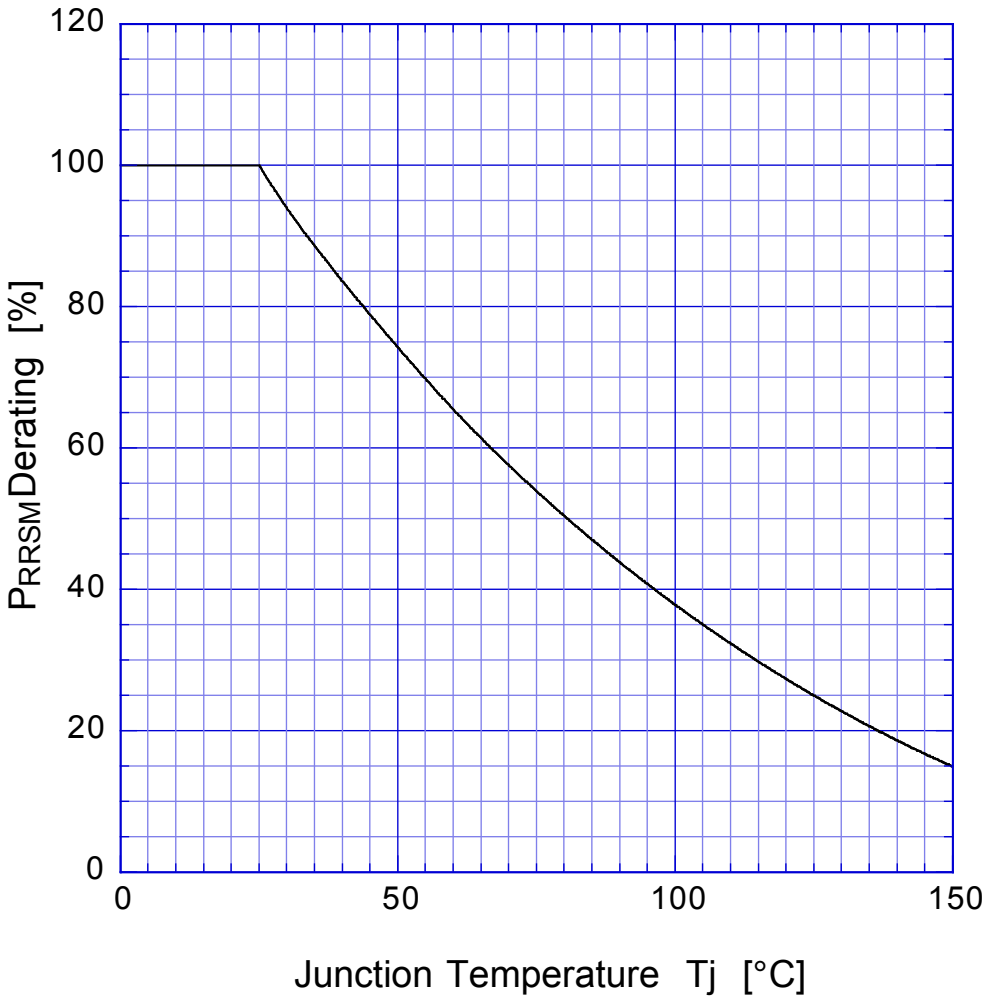


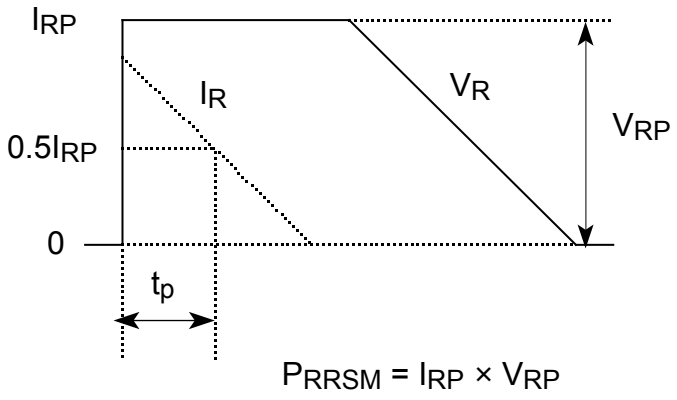


D10SC6MR Peak Surge Forward Capability



SBD Repetitive Surge Reverse Power Derating Curve





SBD Repetitive Surge Reverse Power Capability

