

SHINDENGEN

Schottky Rectifiers (SBD)

Dual

D10SC6MR

60V 10A

FEATURES

T_j150

P_{RRSM} avalanche guaranteed

Fully Isolated Molding

APPLICATION

Switching power supply

DC/DC converter

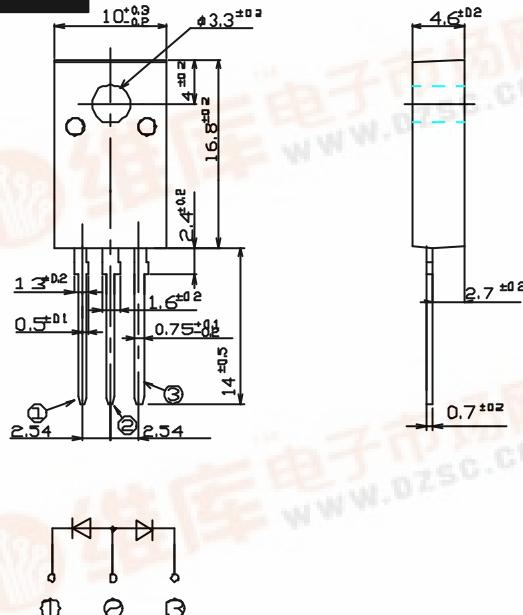
Home Appliances, Office Equipment

Telecommunication

OUTLINE DIMENSIONS

Case : ITO-220

Unit : mm



RATINGS

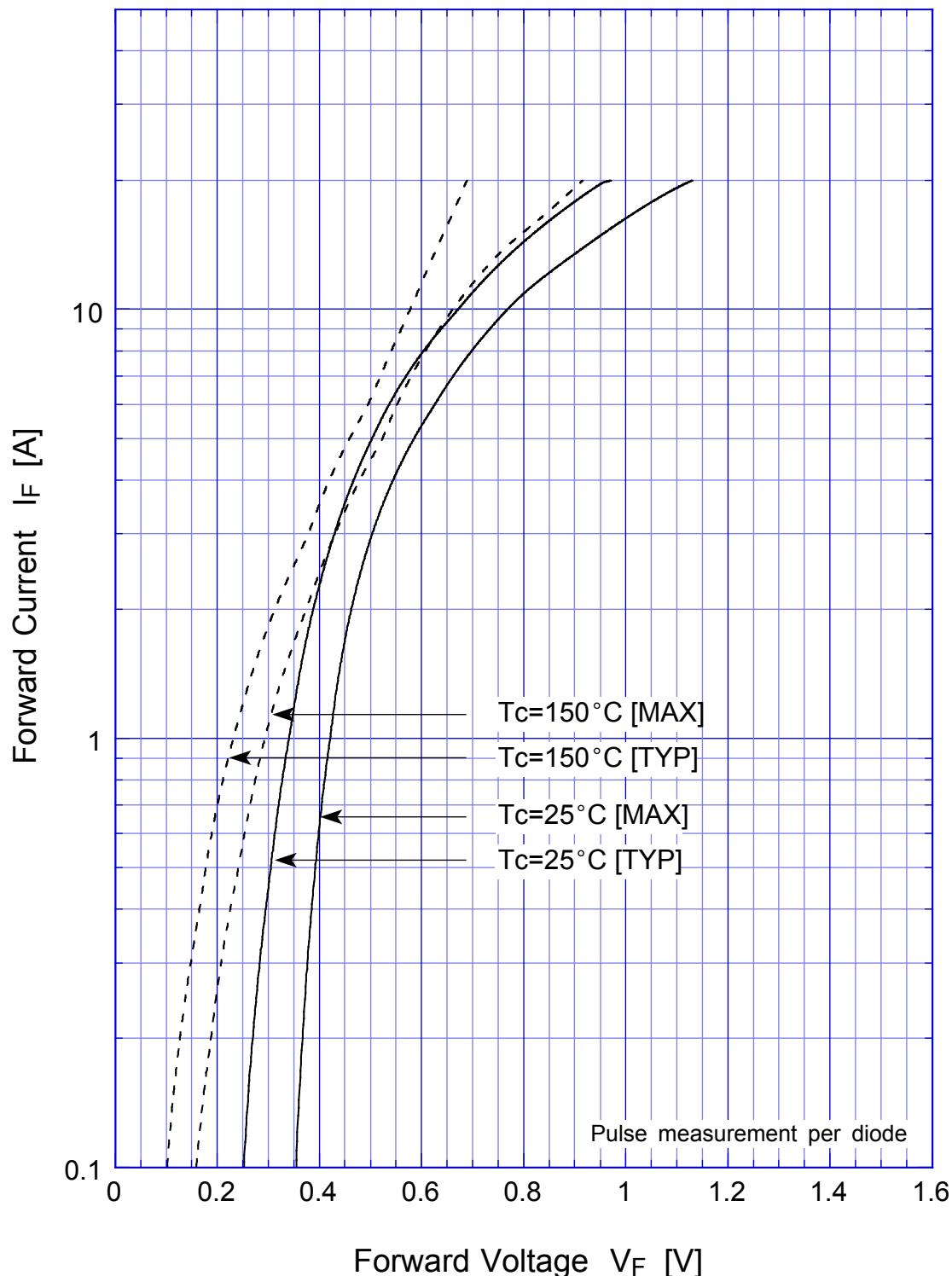
Absolute Maximum Ratings (If not specified T_c=25)

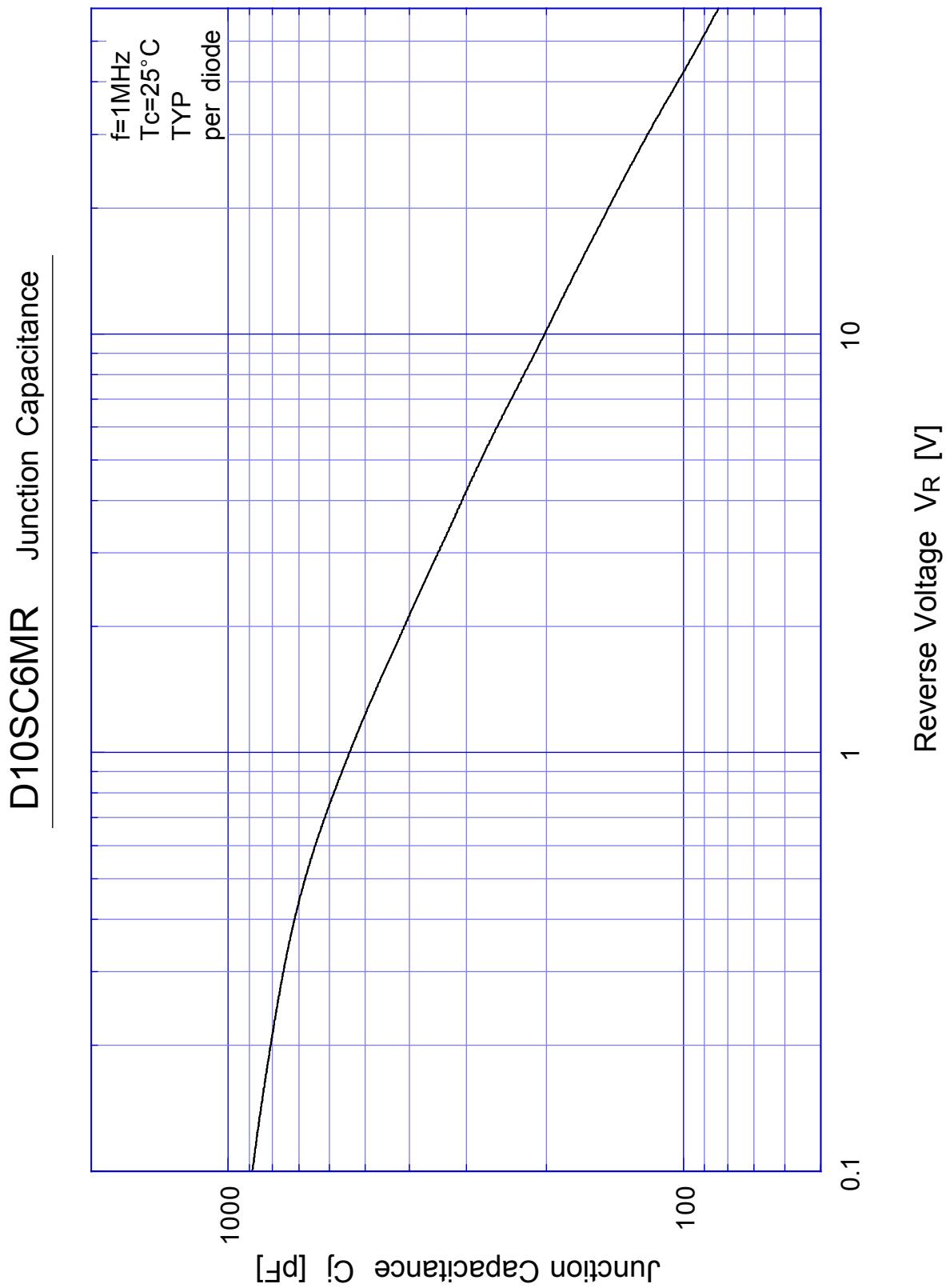
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	T _{stg}		-40 ~ 150	
Operating Junction Temperature	T _j		150	
Maximum Reverse Voltage	V _{RM}		60	V
Repetitive Peak Surge Reverse Voltage	V _{RRSM}	Pulse width 0.5ms, duty 1/40	65	V
Average Rectified Forward Current	I _o	50Hz sine wave, R-load, Rating for each diode I _o /2, T _c =120	10	A
Peak Surge Forward Current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, T _j =125	100	A
Repetitive Peak Surge Reverse Power	P _{RRSM}	Pulse width 10 μs, Rating of per diode, T _j = 25	330	W
Dielectric Strength	V _{dis}	Terminals to case, AC 1 minute	1.5	kV
Mounting Torque	T _{OR}	(Recommended torque 0.3N·m)	0.5	N·m

Electrical Characteristics T_c=25

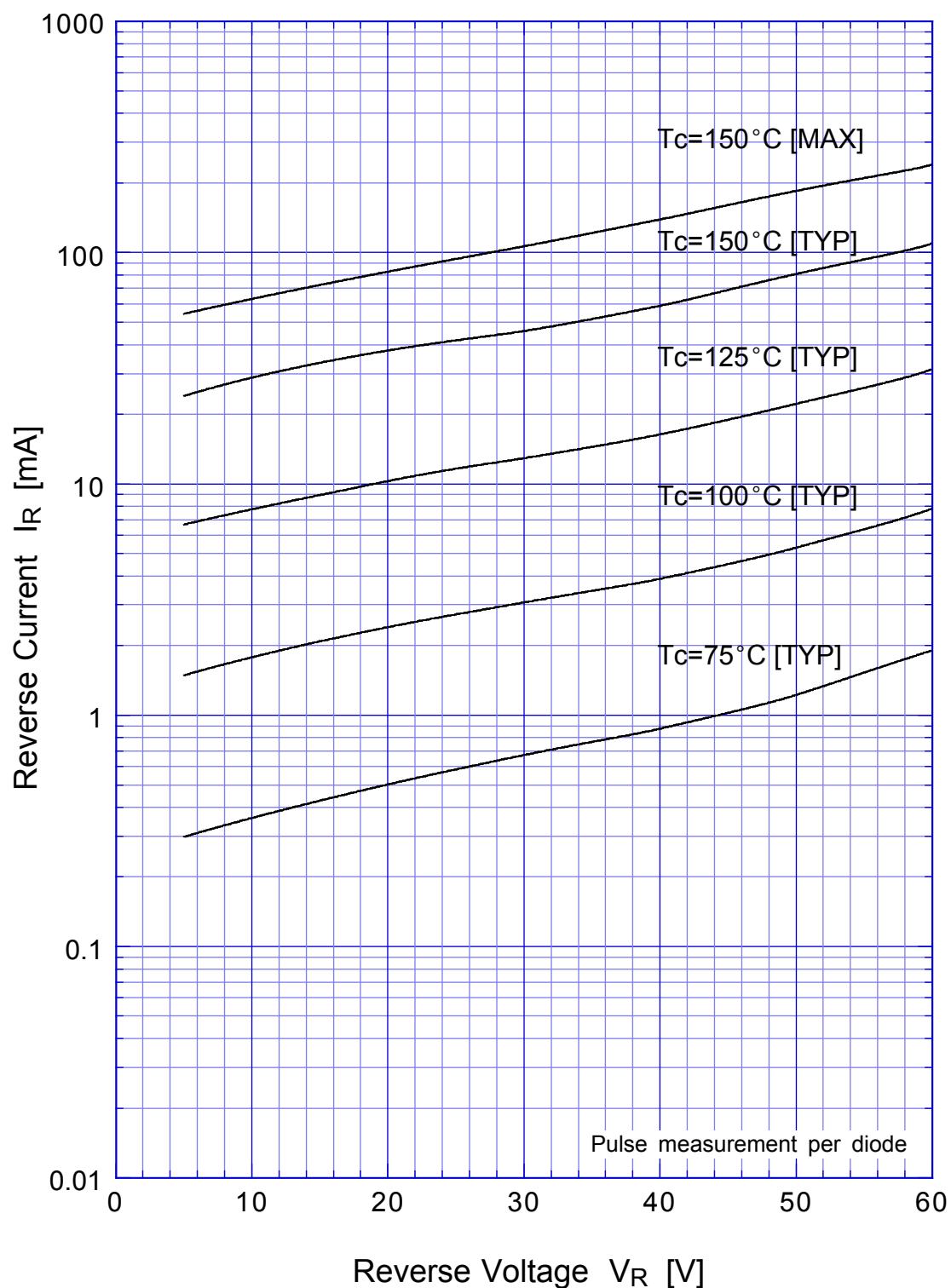
Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V _F	I _F =5A, Pulse measurement, Rating of per diode	Max.0.58	V
Reverse Current	I _R	V _R =V _{RM} , Pulse measurement, Rating of per diode	Max.4.5	mA
Junction Capacitance	C _j	f=1MHz, V _R =10V, Rating of per diode	Typ.200	pF
Thermal Resistance	j _C	junction to case	Max.3.3	/W
	c _f	case to heatsink, Mounting torque=0.5N·m	Max.1.5	

D10SC6MR Forward Voltage

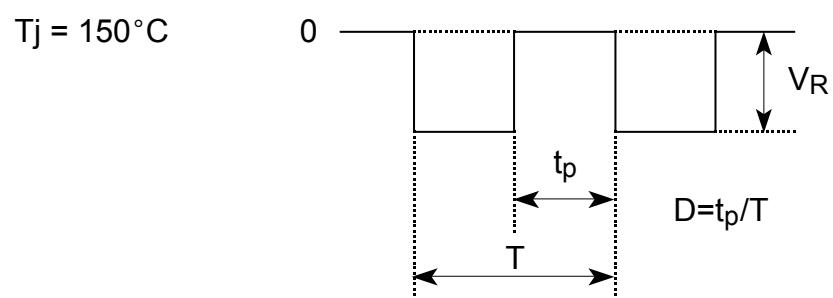
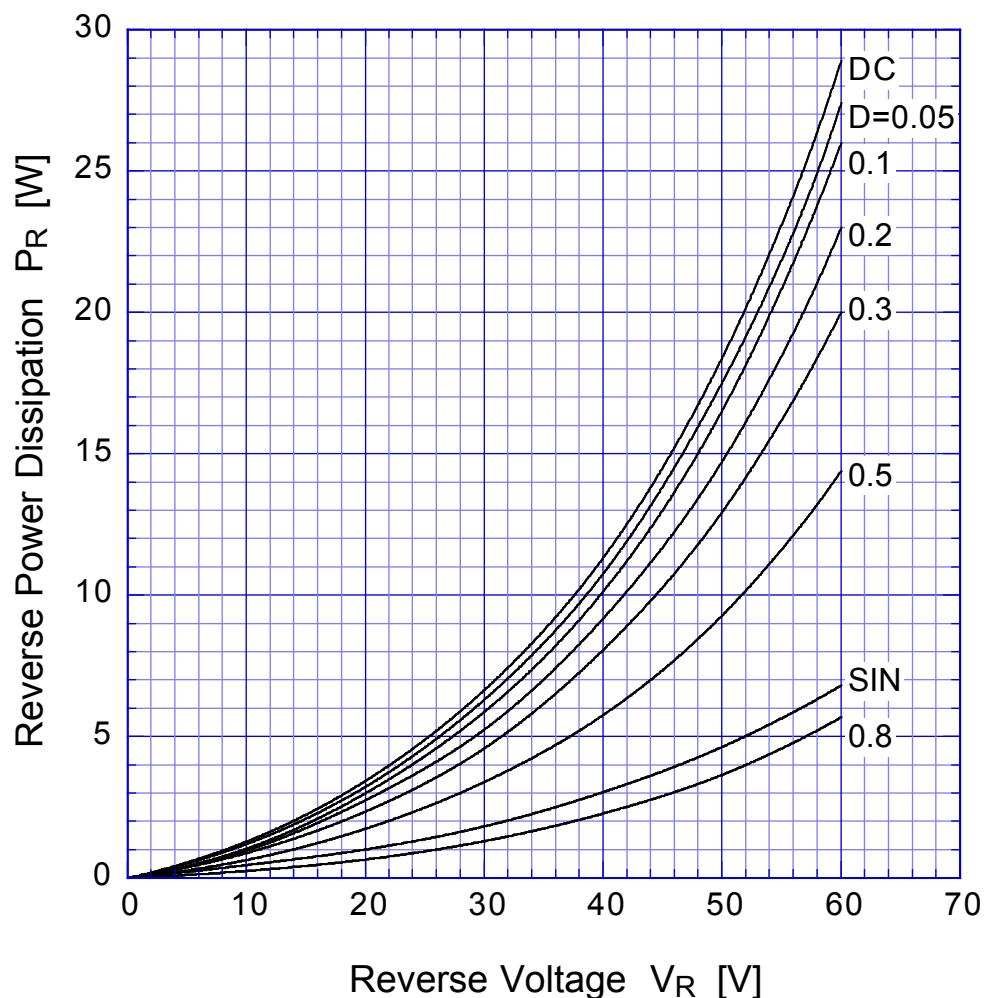




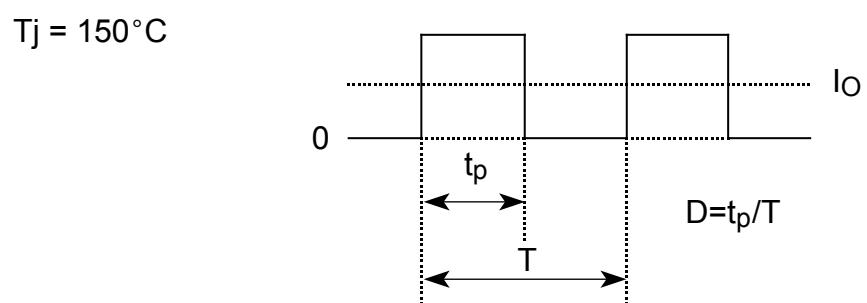
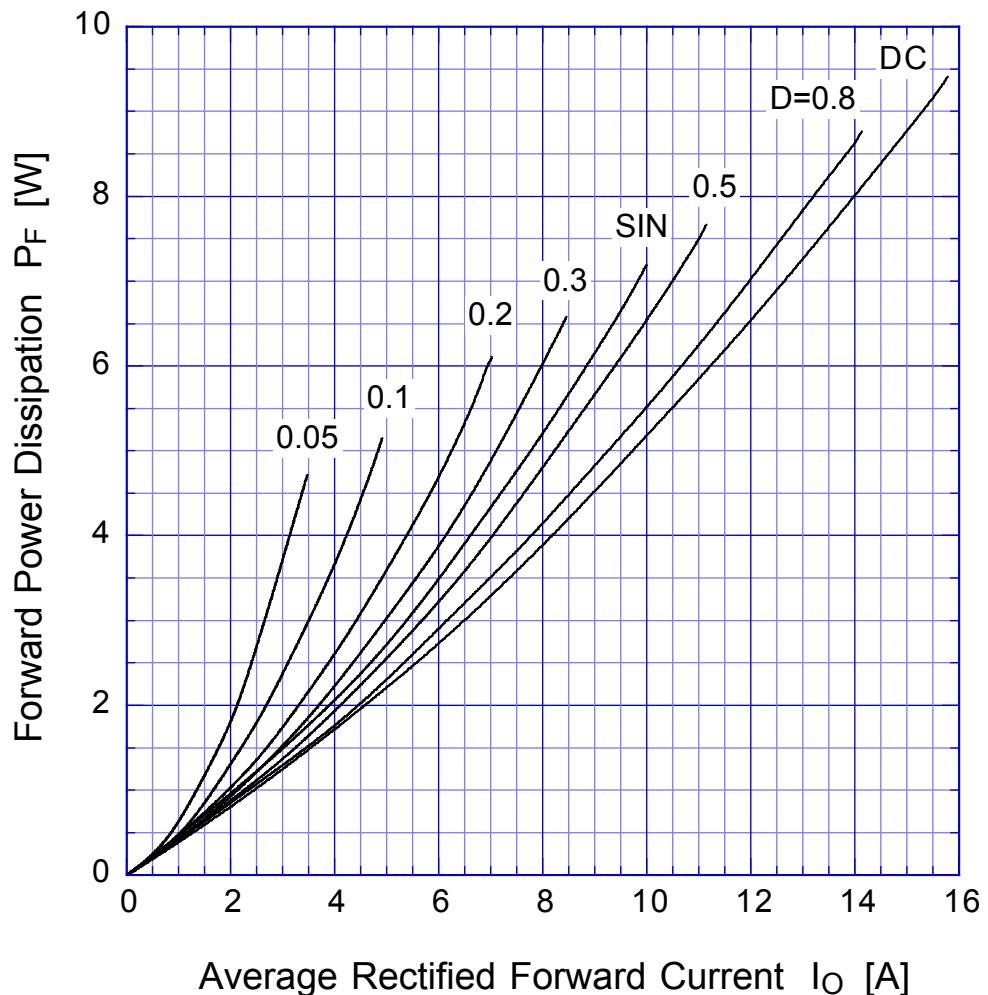
D10SC6MR Reverse Current

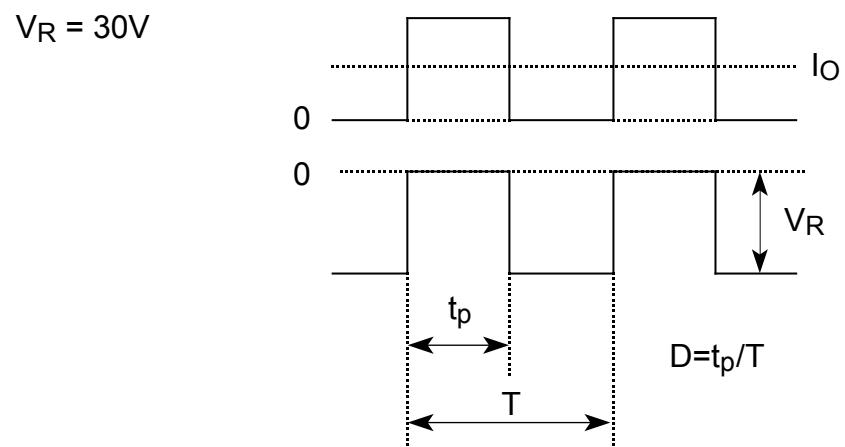
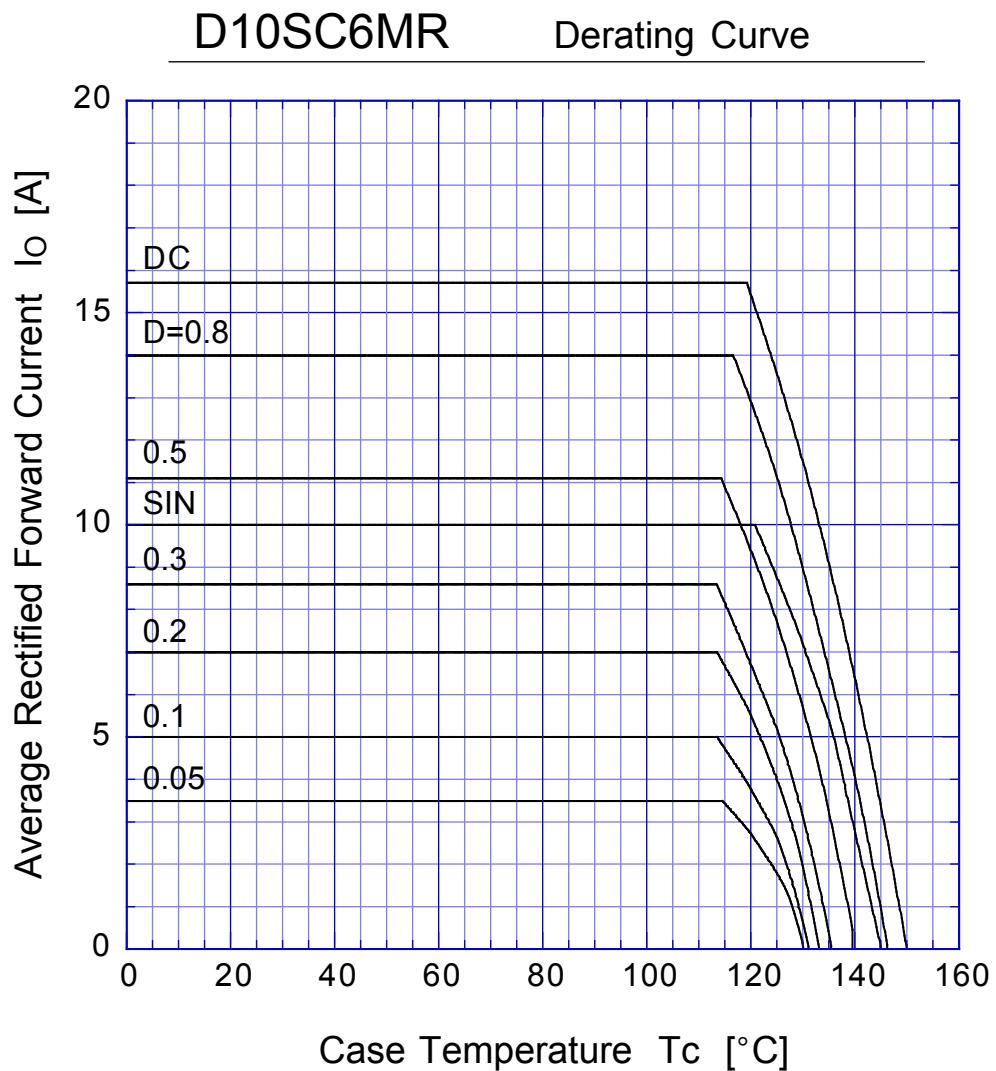


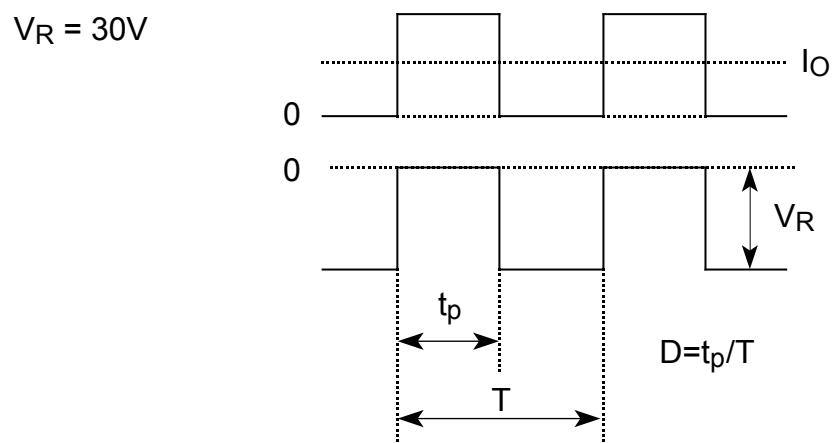
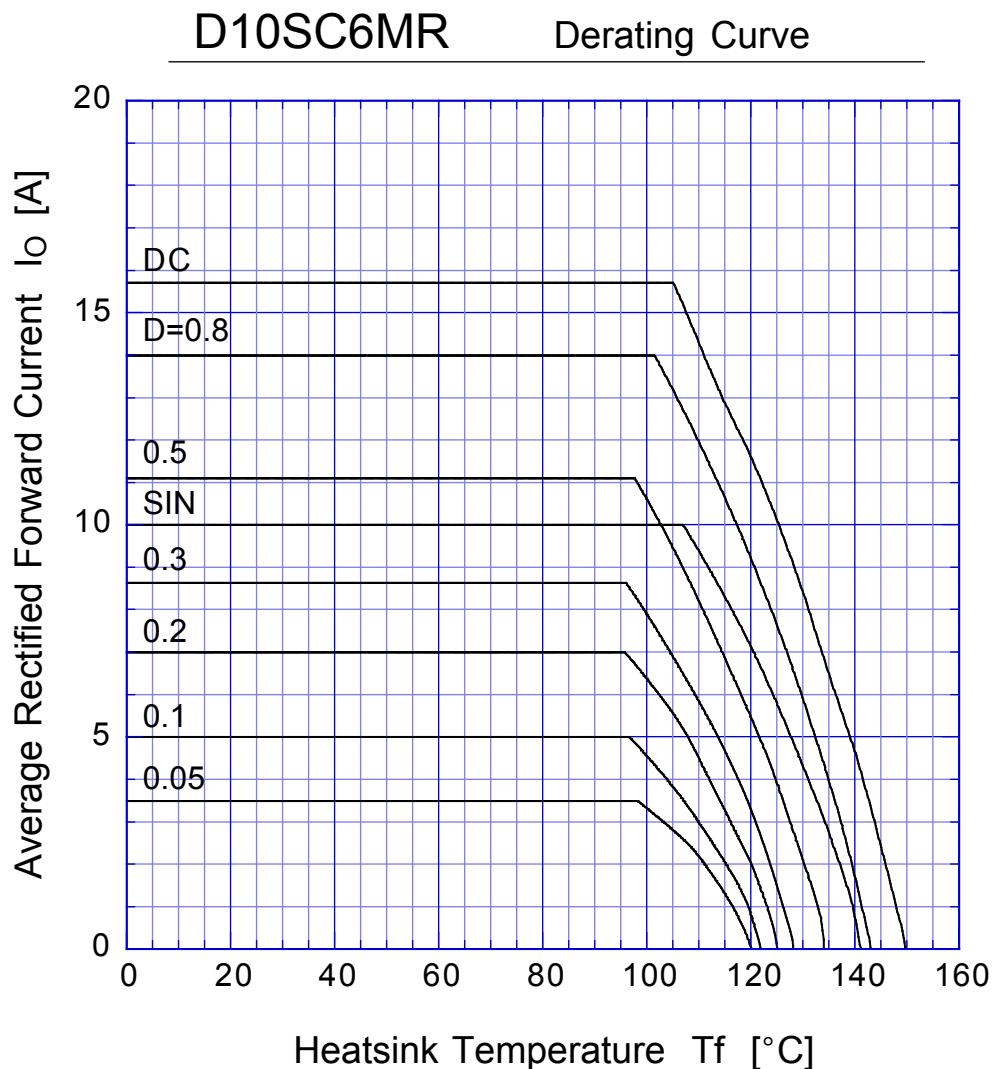
D10SC6MR Reverse Power Dissipation



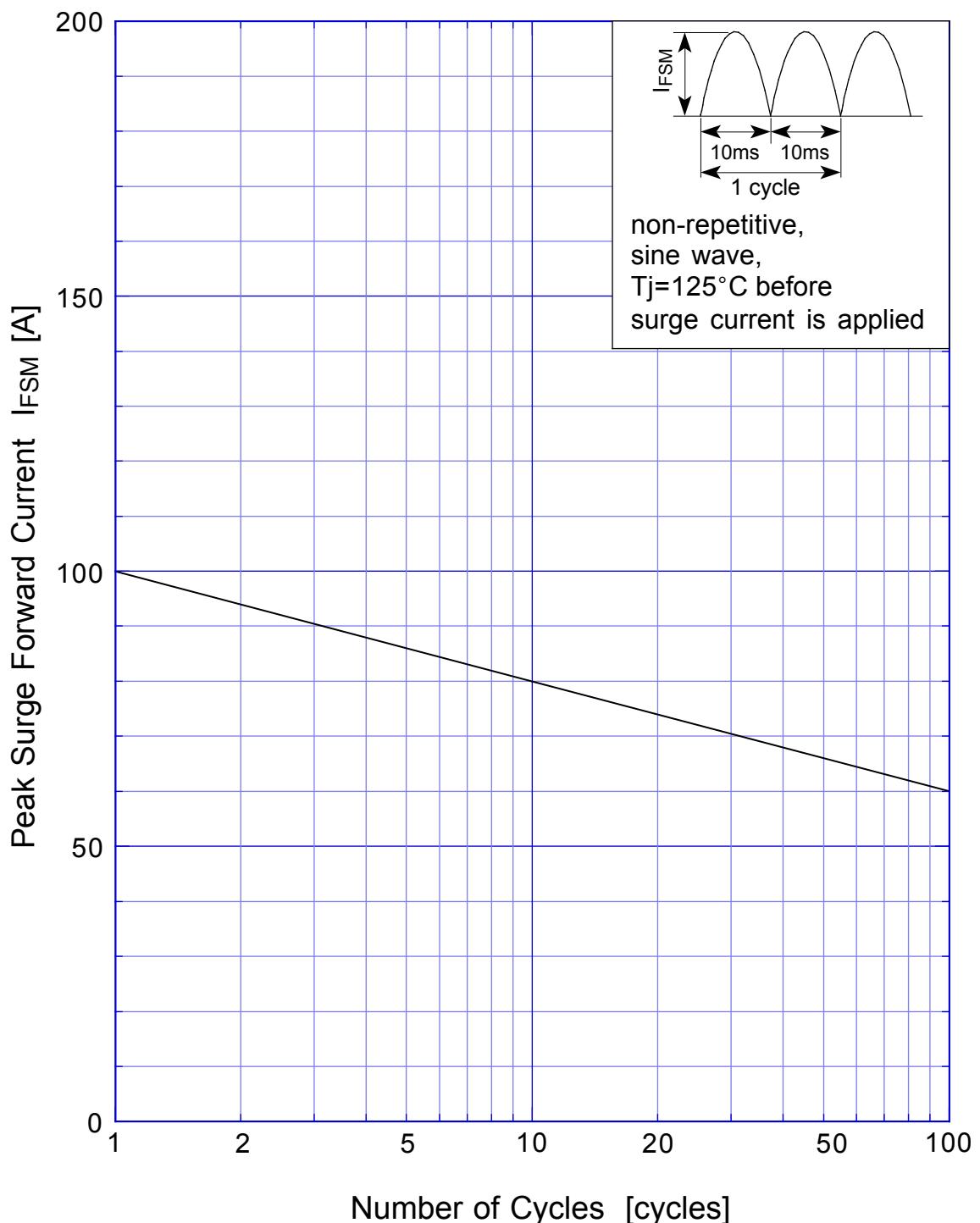
D10SC6MR Forward Power Dissipation



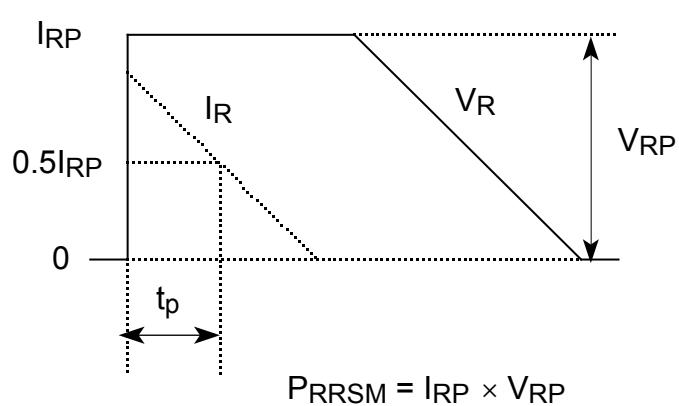
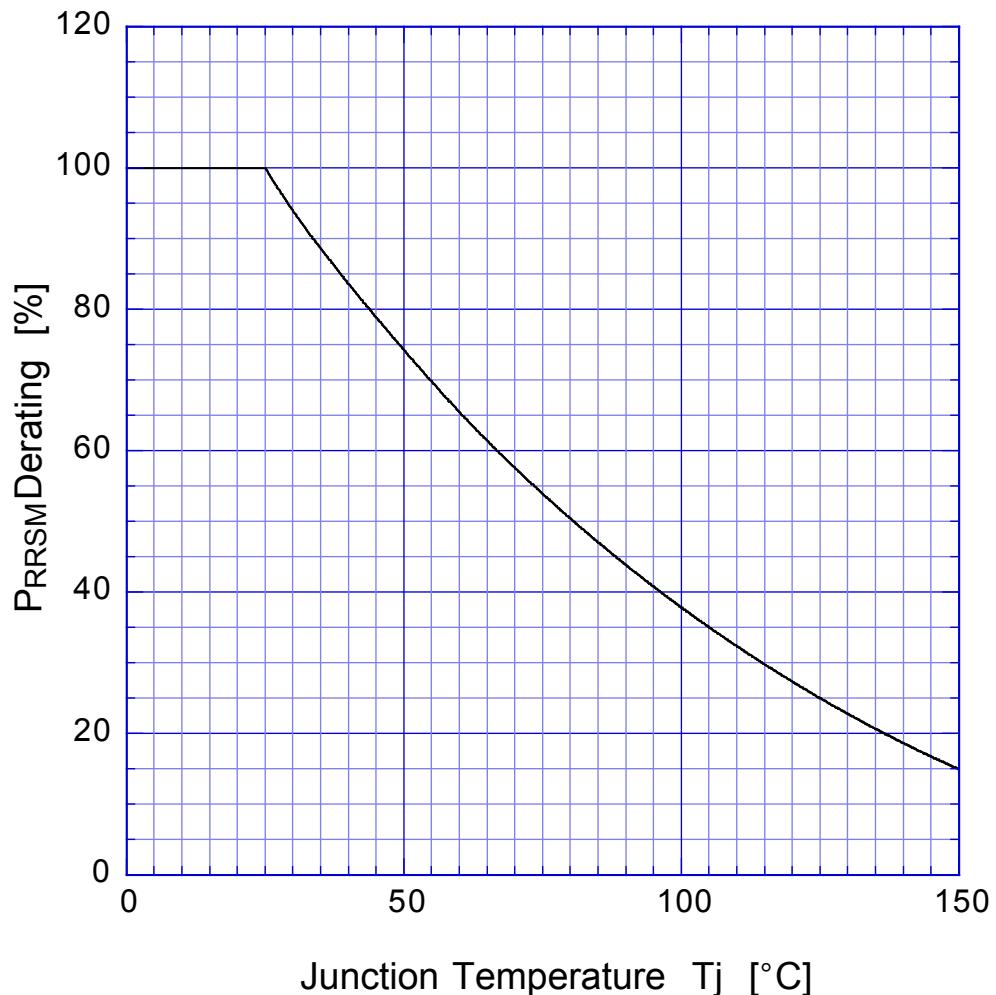




D10SC6MR Peak Surge Forward Capability



SBD Repetitive Surge Reverse Power Derating Curve



SBD Repetitive Surge Reverse Power Capability

