

SHINDENGEN

Schottky Rectifiers (SBD)

Dual

D15SCA4M

40V 15A

FEATURES

T_j150

P_{RRSM} avalanche guaranteed

Fully Isolated Molding

APPLICATION

Switching power supply

DC/DC converter

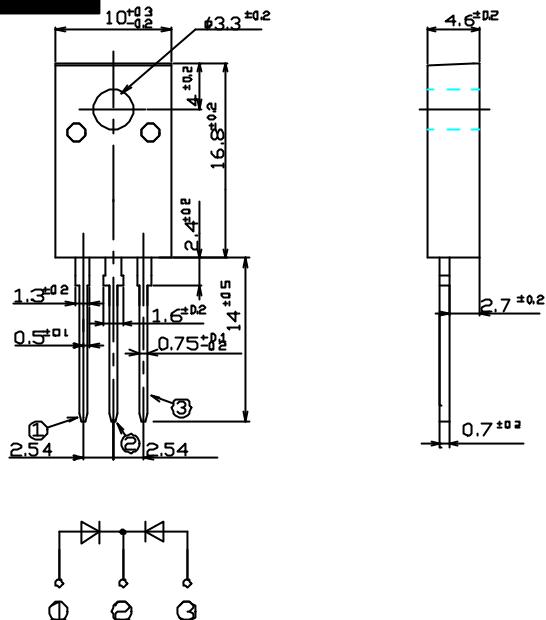
Home Appliances, Office Equipment

Telecommunication

OUTLINE DIMENSIONS

Case : ITO-220

Unit : mm



RATINGS

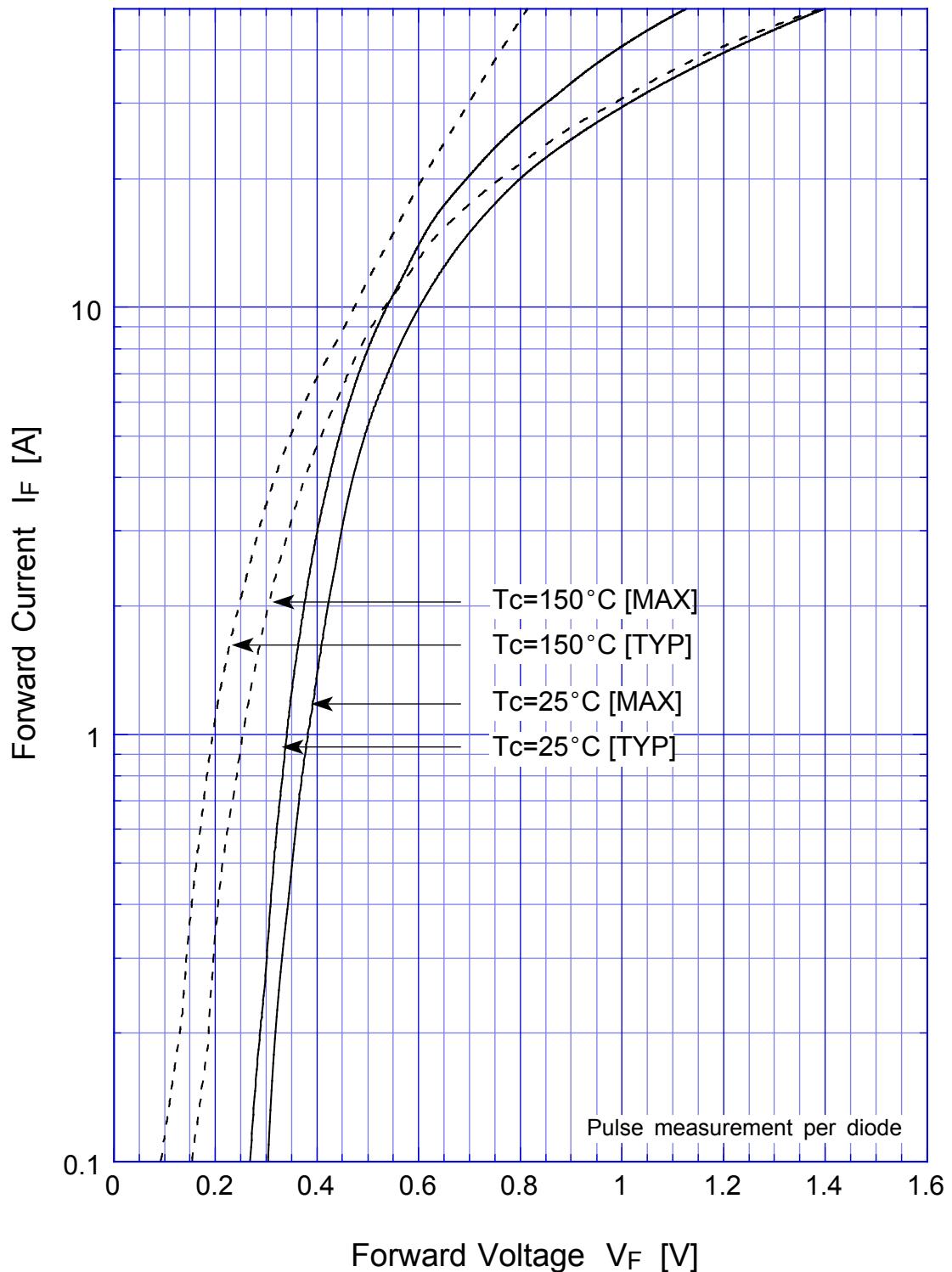
Absolute Maximum Ratings (If not specified T_c=25)

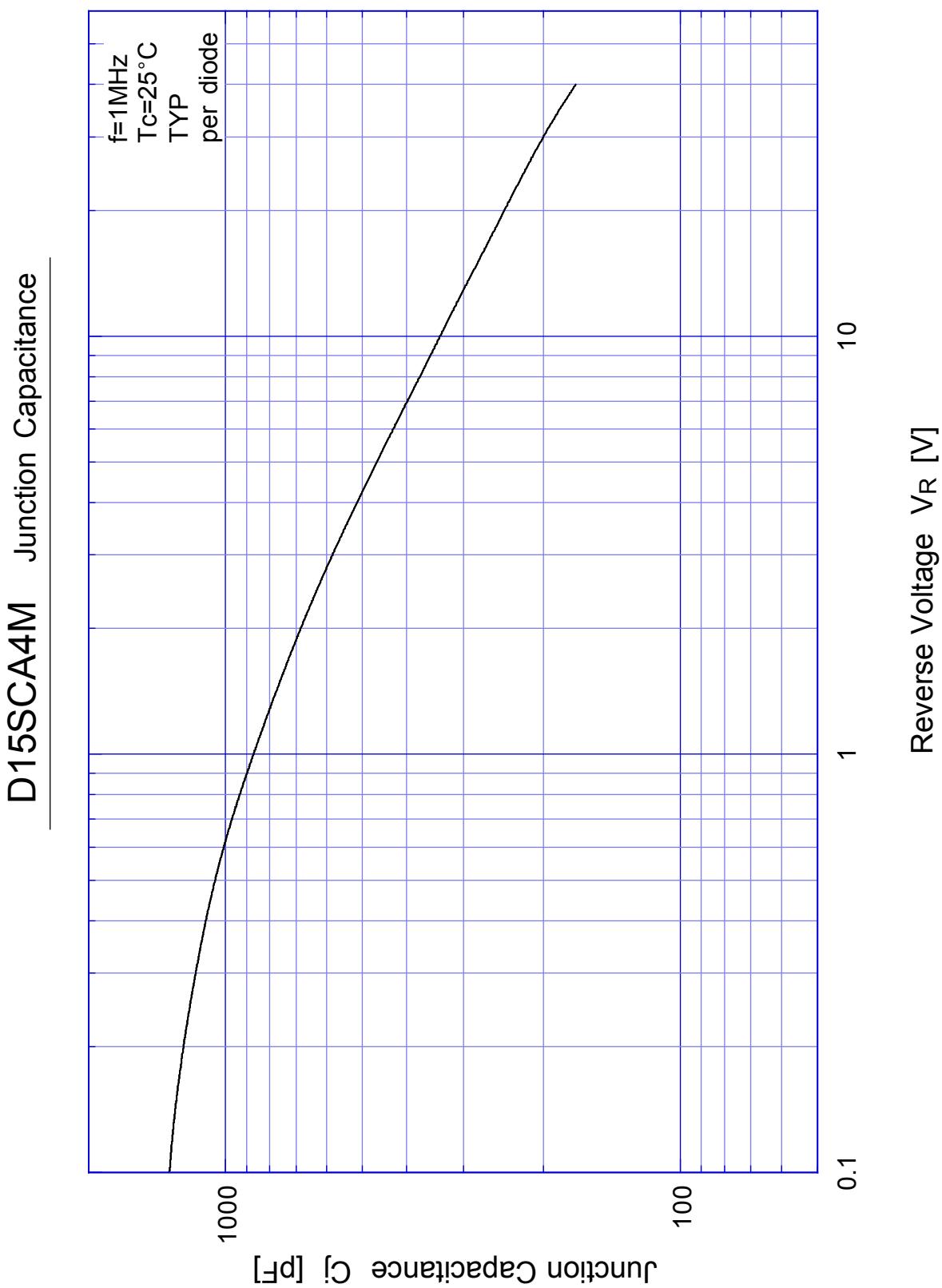
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	T _{stg}		-40 ~ 150	
Operating Junction Temperature	T _j		150	
Maximum Reverse Voltage	V _{RM}		40	V
Repetitive Peak Surge Reverse Voltage	V _{RRSM}	Pulse width 0.5ms, duty 1/40	45	V
Average Rectified Forward Current	I _o	50Hz sine wave, R-load, Rating for each diode I _o /2, T _c =117	15	A
Peak Surge Forward Current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, T _j =125	150	A
Repetitive Peak Surge Reverse Power	P _{RRSM}	Pulse width 10 μ s, 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 (If not specified T_c=25)

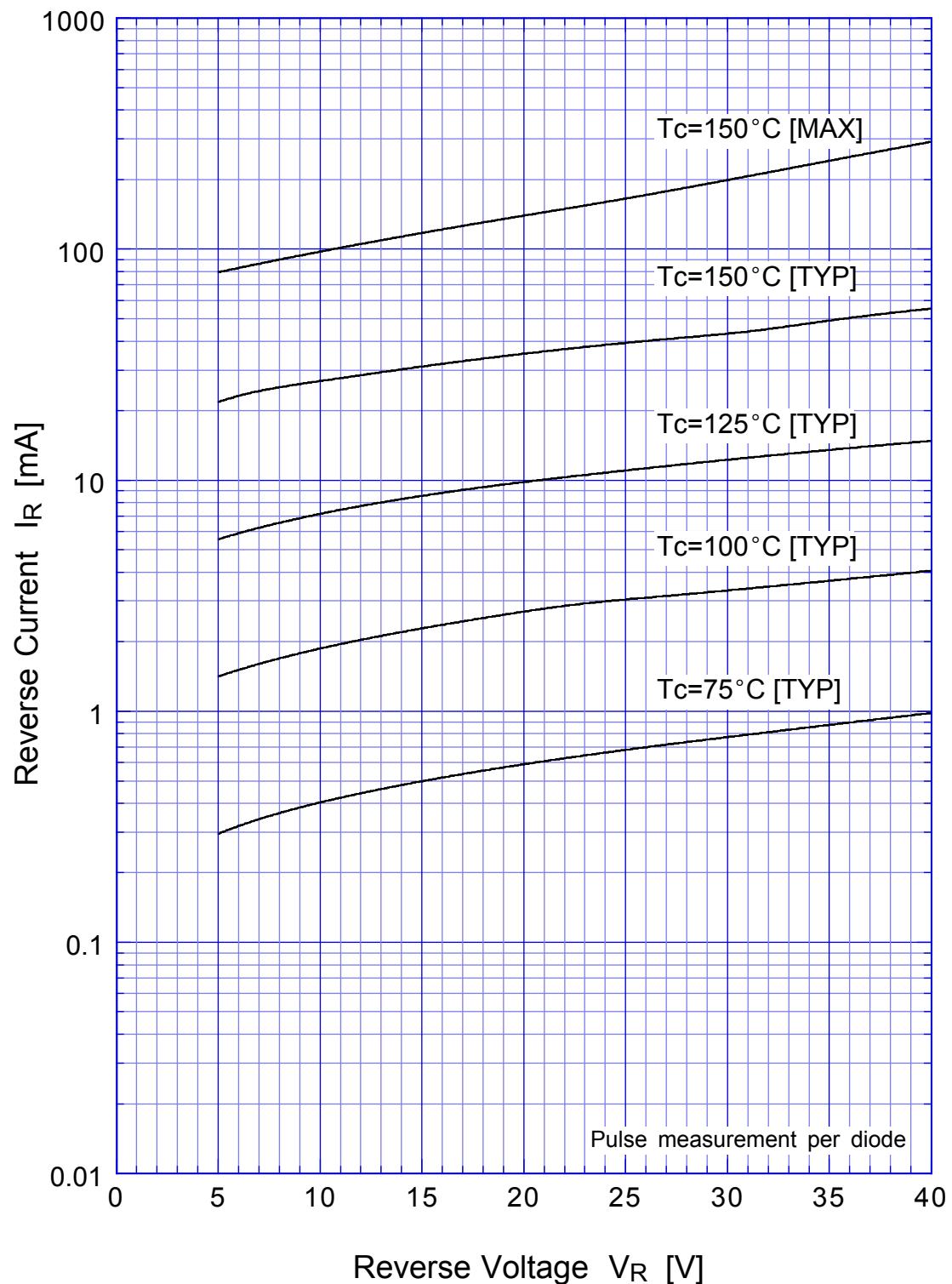
Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V _F	I _F =7.5A, Pulse measurement, Rating of per diode	Max.0.55	V
Reverse Current	I _R	V _R =V _{RM} , Pulse measurement, Rating of per diode	Max. 5	mA
Junction Capacitance	C _j	f=1MHz, V _R =10V, Rating of per diode	Typ.340	pF
Thermal Resistance	j _C	junction to case	Max.2.8	/W
	c _f	case to heatsink. Mounting torque=0.5N·m	Max.1.5	

D15SCA4M Forward Voltage

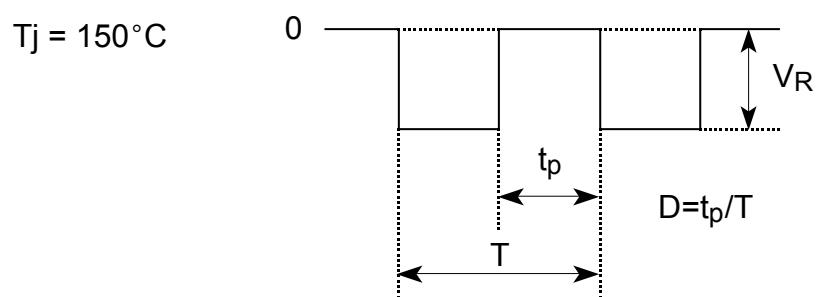
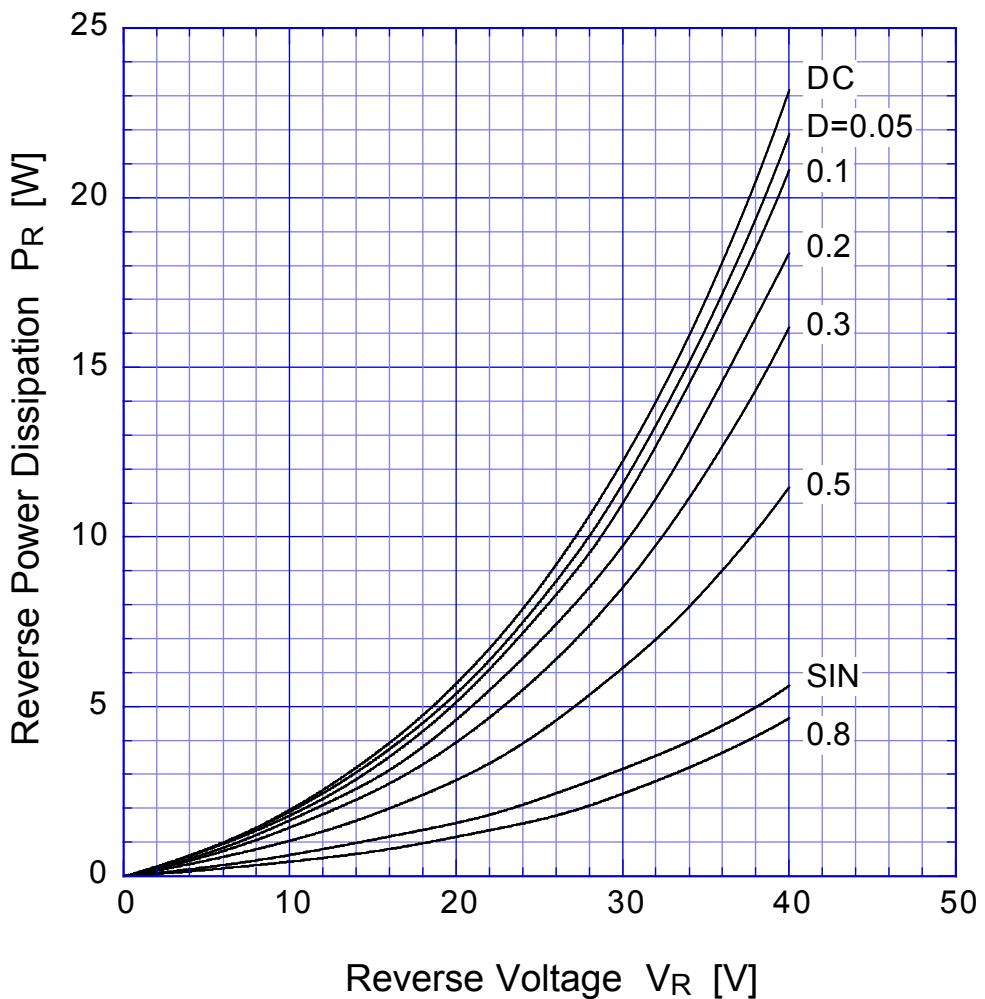




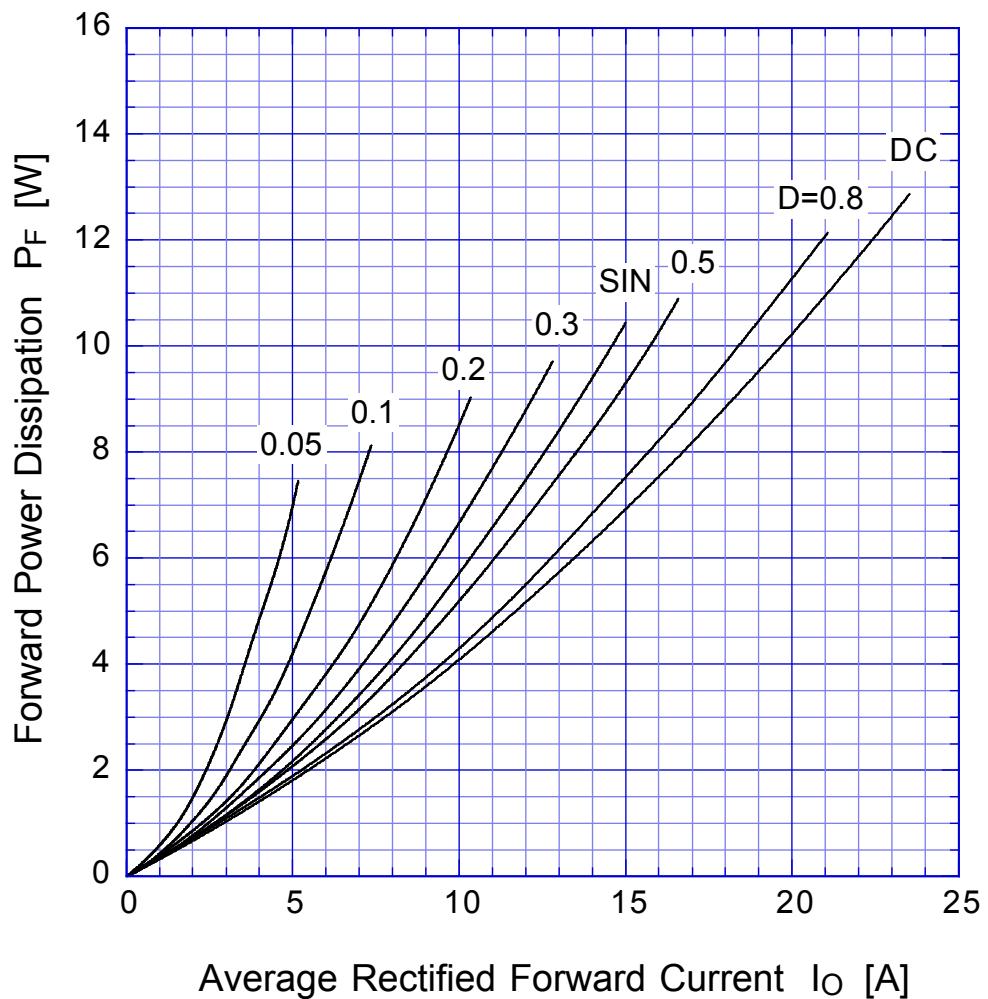
D15SCA4M Reverse Current



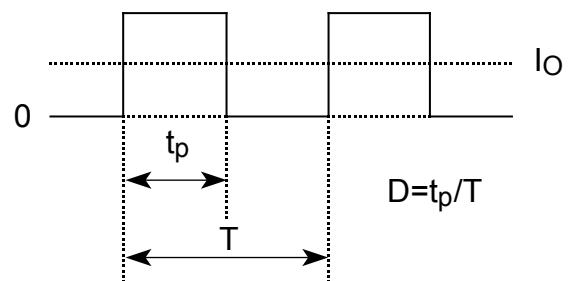
D15SCA4M Reverse Power Dissipation

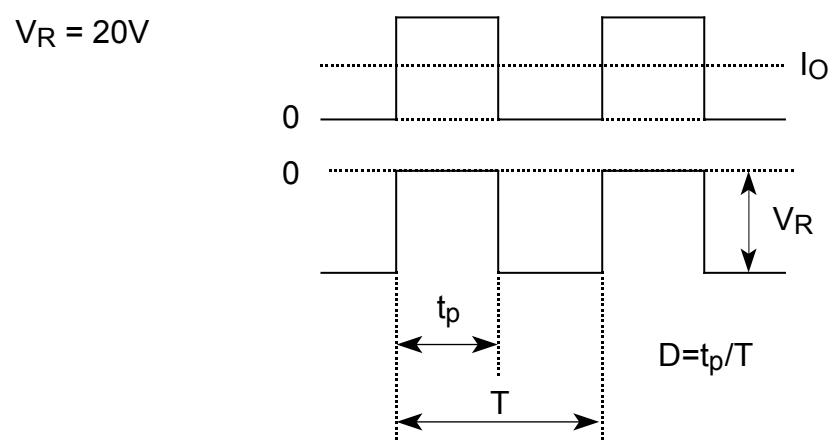
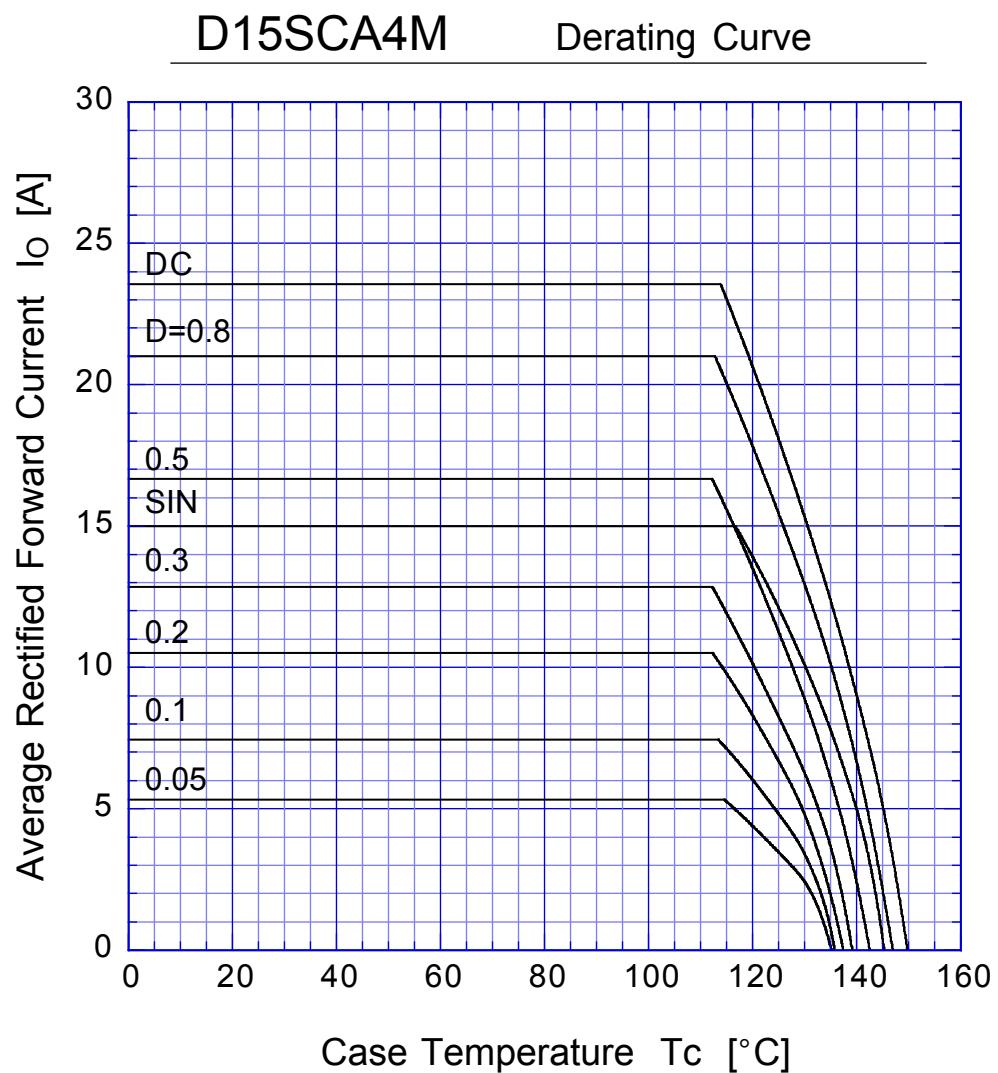


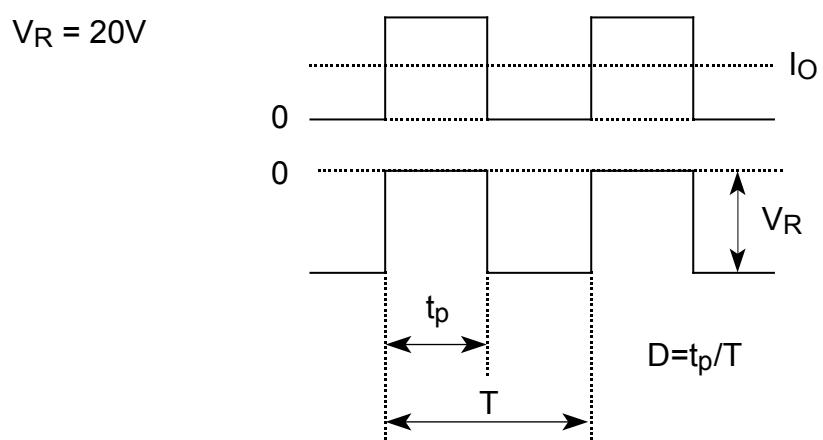
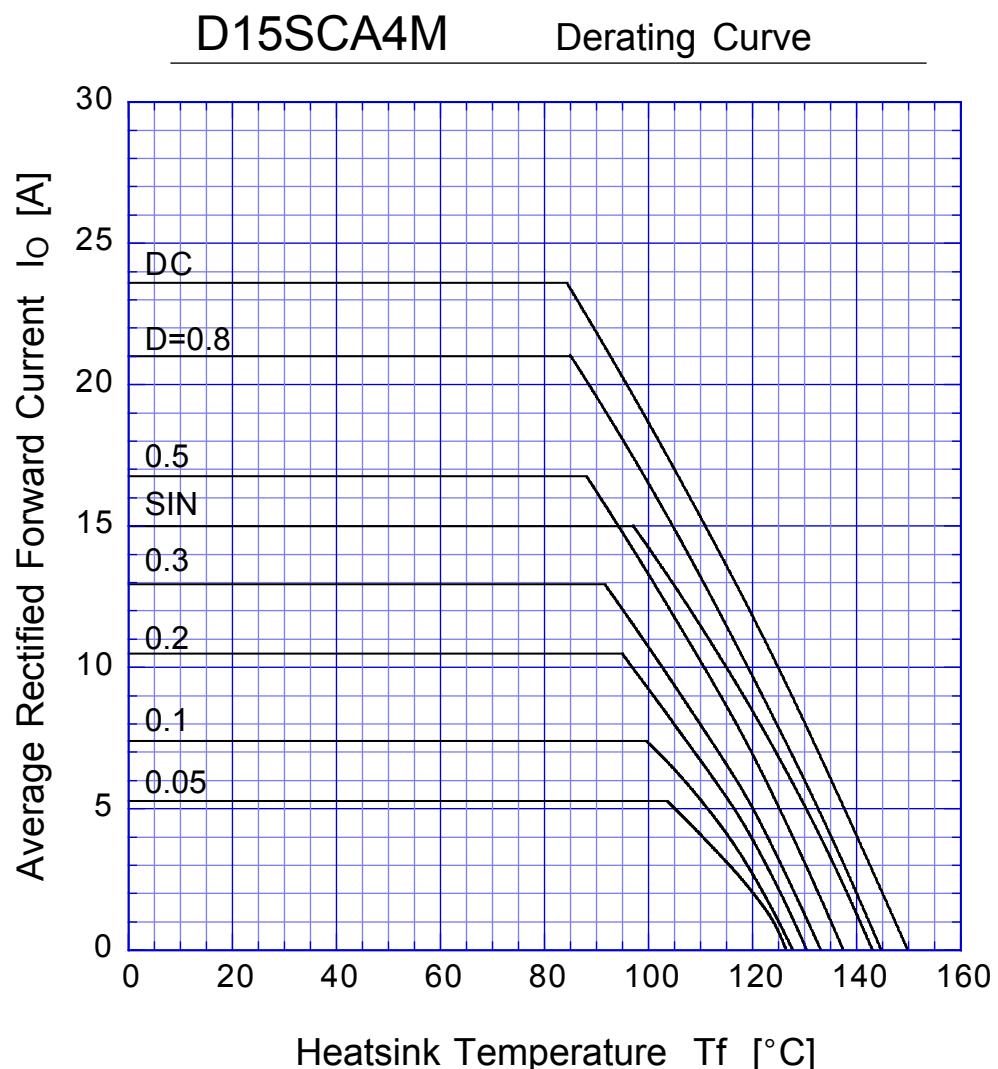
D15SCA4M Forward Power Dissipation



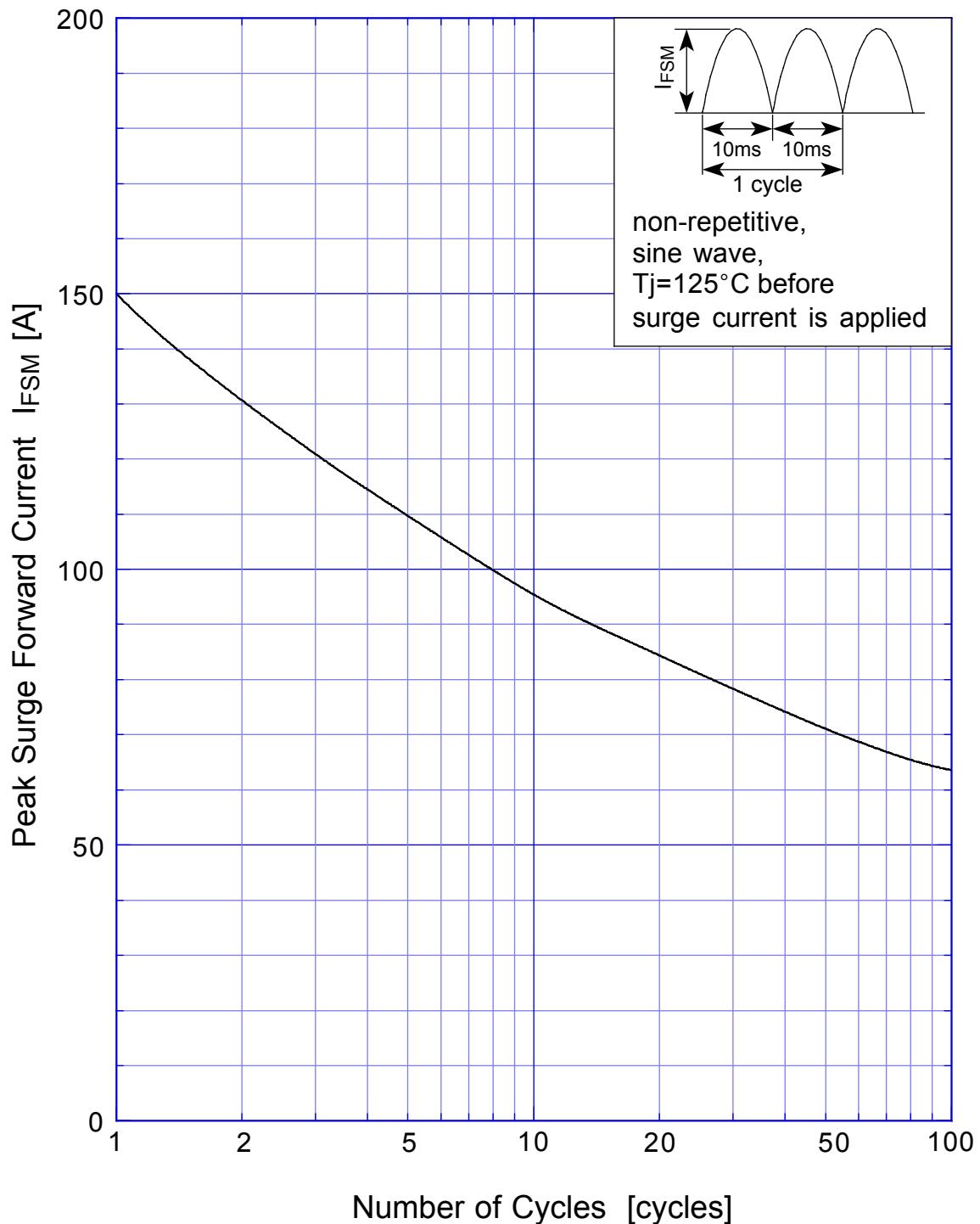
$T_j = 150^\circ\text{C}$



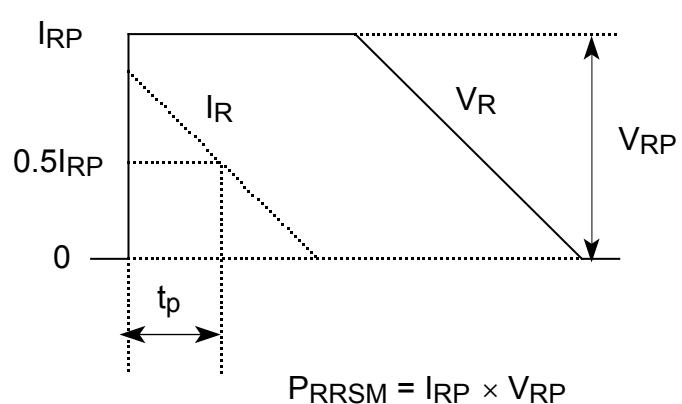
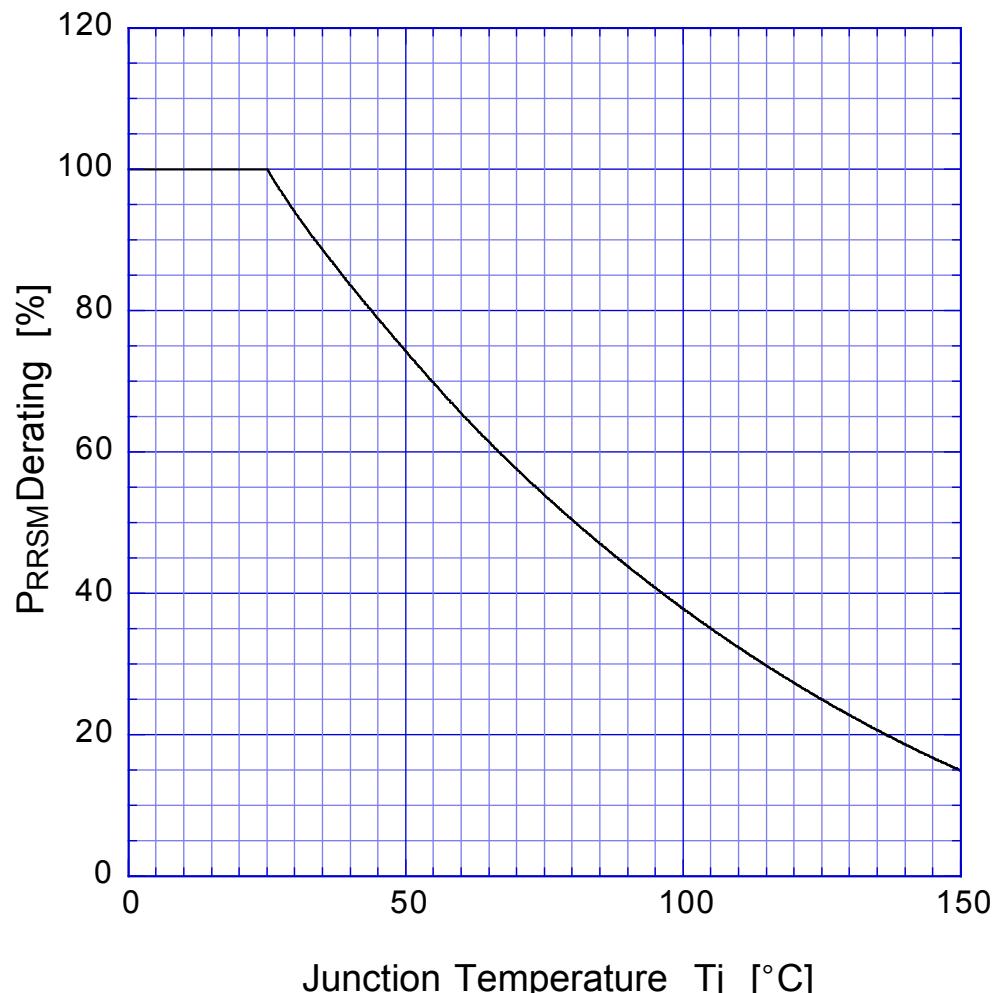




D15SCA4M Peak Surge Forward Capability



SBD Repetitive Surge Reverse Power Derating Curve



SBD Repetitive Surge Reverse Power Capability

