

SHINDENGEN

Schottky Rectifiers (SBD)

Single

D2S4M

40V 2A

FEATURES

T_j150

P_{RRSM} avalanche guaranteed

0.8 lead

APPLICATION

Switching power supply

DC/DC converter

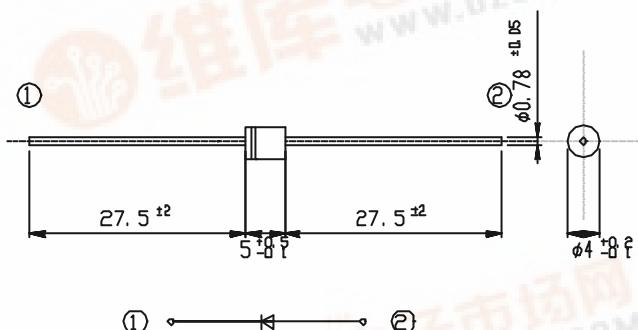
Home Appliances, Office Equipment

Telecommunication

OUTLINE DIMENSIONS

Case : AX078

Unit : mm



RATINGS

Absolute Maximum Ratings (If not specified TI=25)

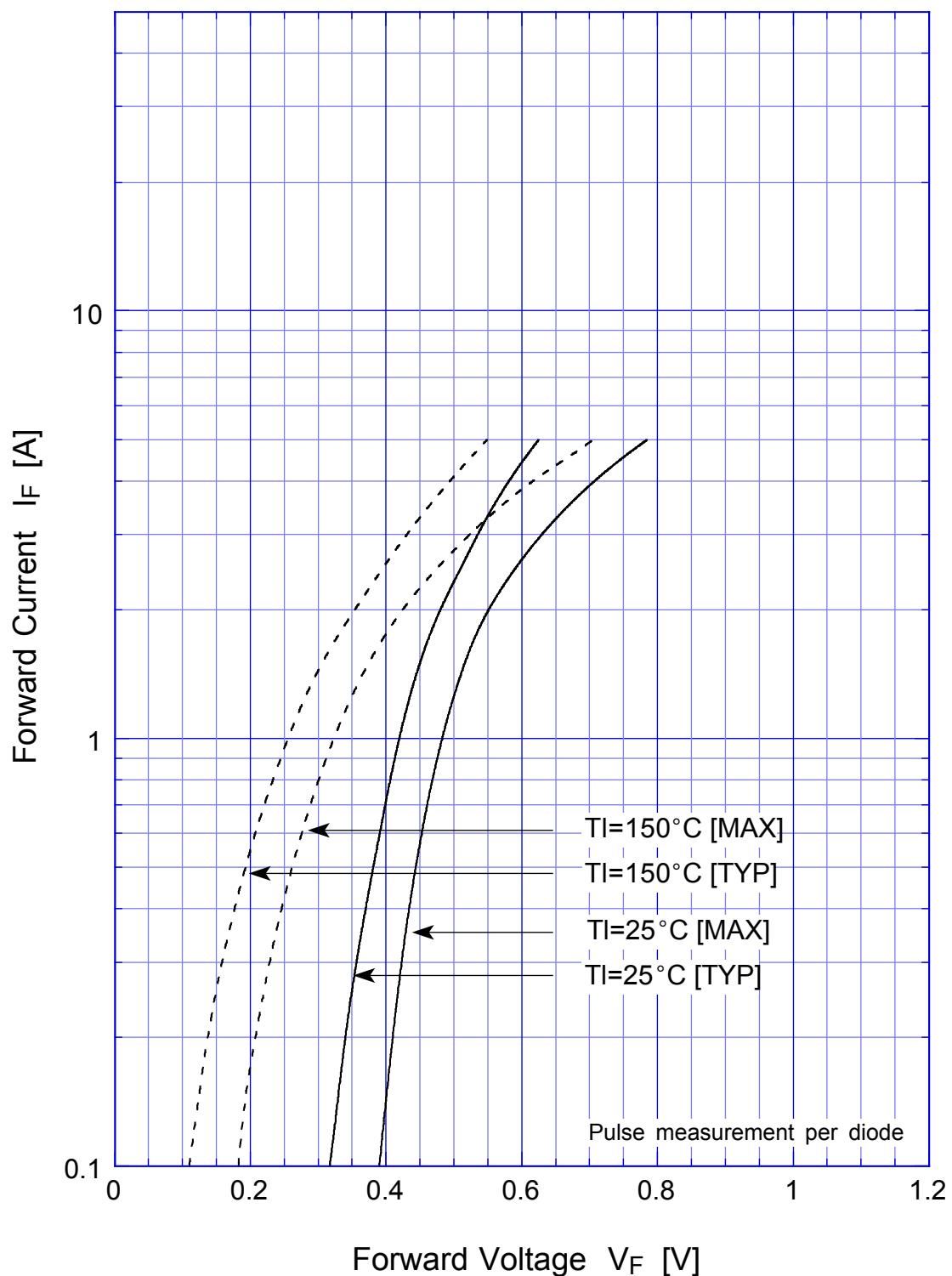
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	T _{stg}		-40 ~ 150	
Operating Junction Temperature	T _j		150	
Maximum Reverse Voltage	V _{RM}		40	V
Repetitive Peak Surge Reverse Voltage	V _{RRSM}	Pulse width 0.5ms, duty 1/40	45	V
Average Rectified Forward Current	I _o	50Hz sine wave, R-load Ta=36	1.5	A
		50Hz sine wave, R-load TI=122	2	
Peak Surge Forward Current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, T _j =25	60	A
Repetitive Peak Surge Reverse Power	P _{RRSM}	Pulse width 10 μs, T _j =25	160	W

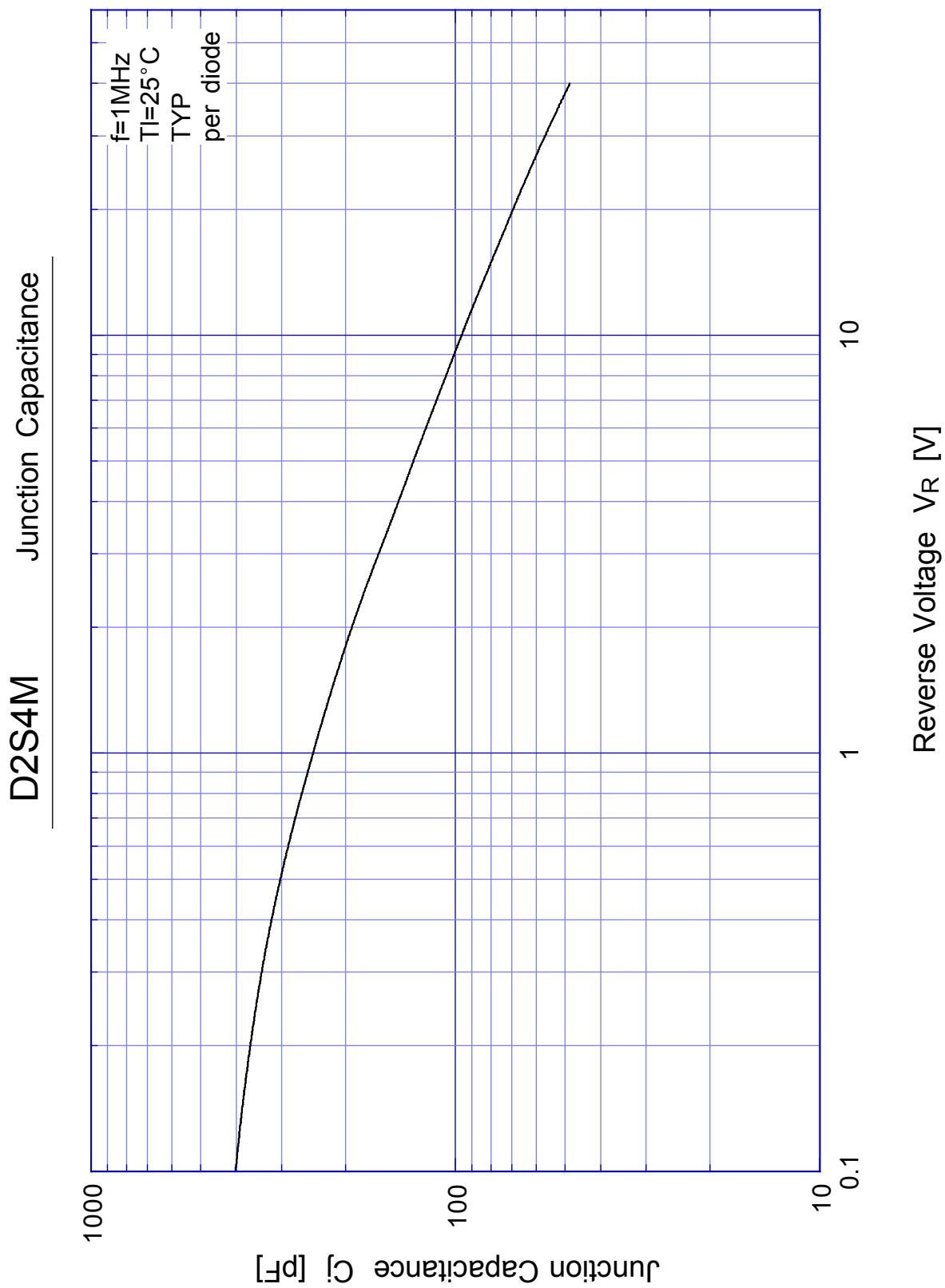
Electrical Characteristics (If not specified TI=25)

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V _F	I _F =2A, Pulse measurement	Max.0.55	V
Reverse Current	I _R	V _R =V _{RM} , Pulse measurement	Max.2	mA
Junction Capacitance	C _j	f=1MHz, V _R =10V	Typ.95	pF
Thermal Resistance	j _l	junction to lead	Max.17	/W
	j _a	junction to ambient	Max.105	

D2S4M

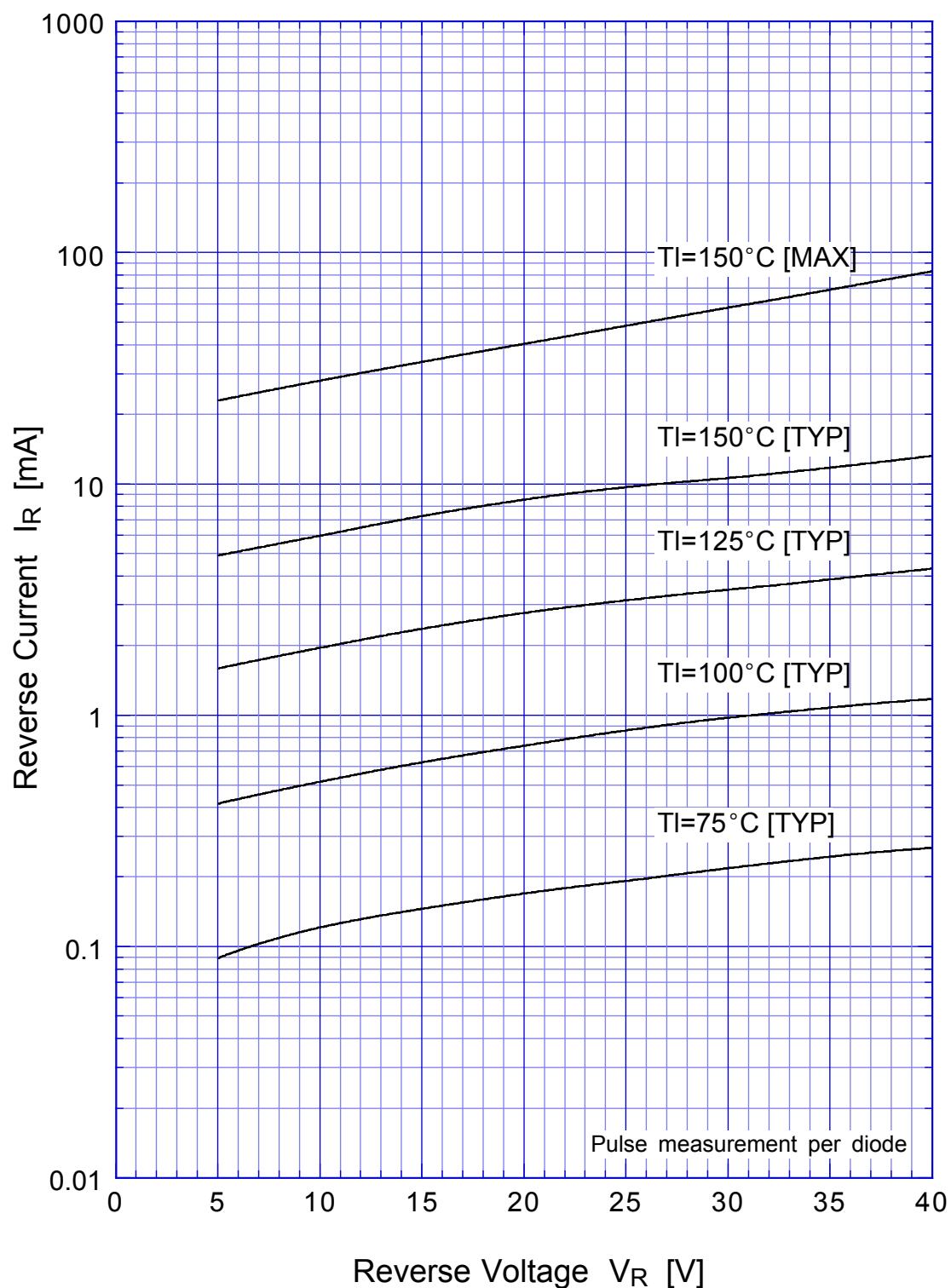
Forward Voltage

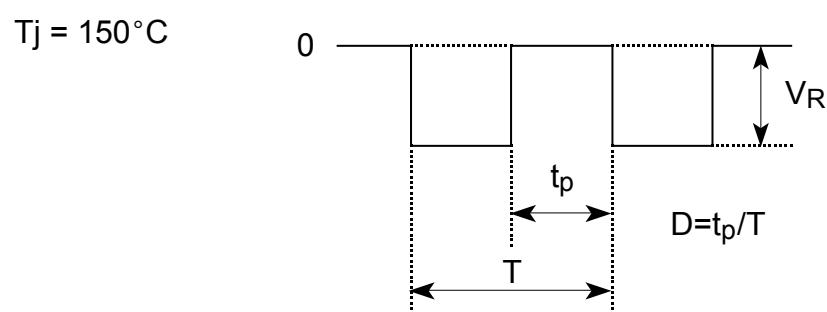
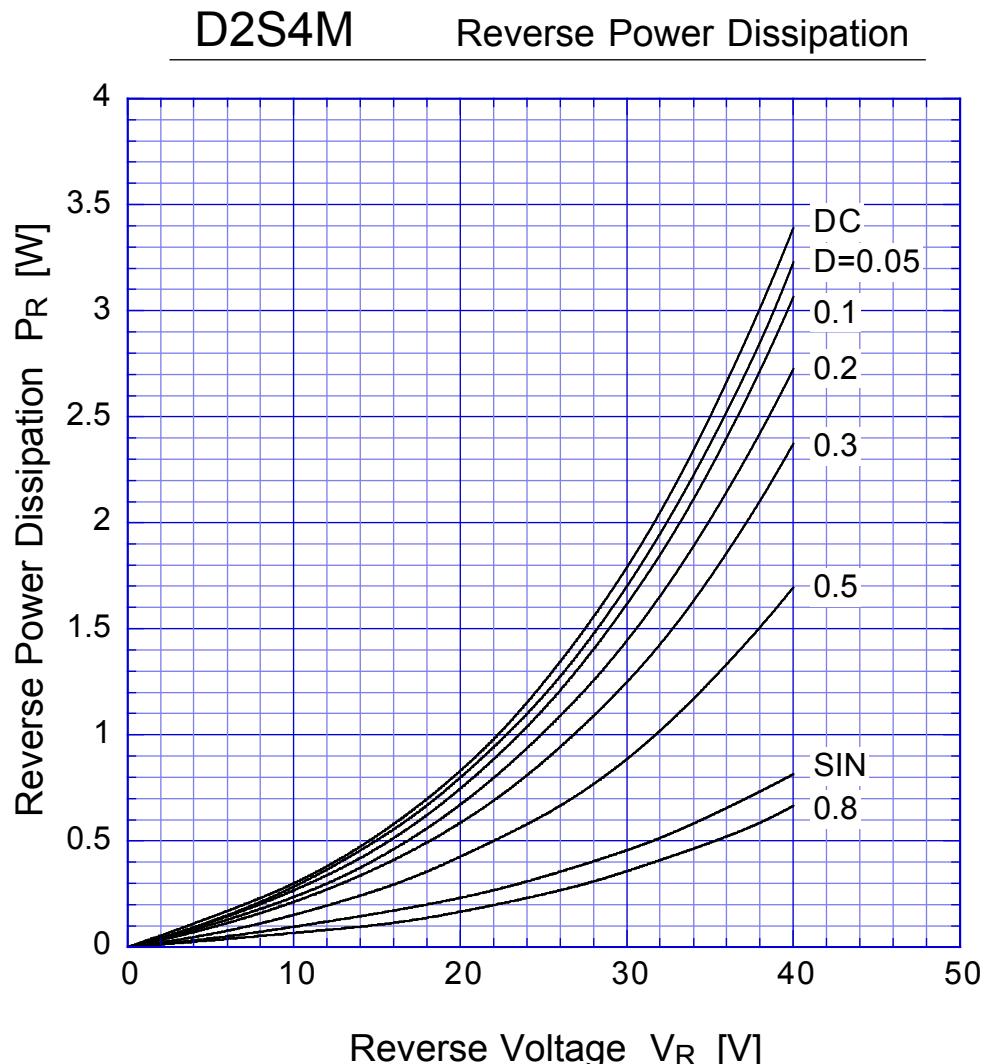




D2S4M

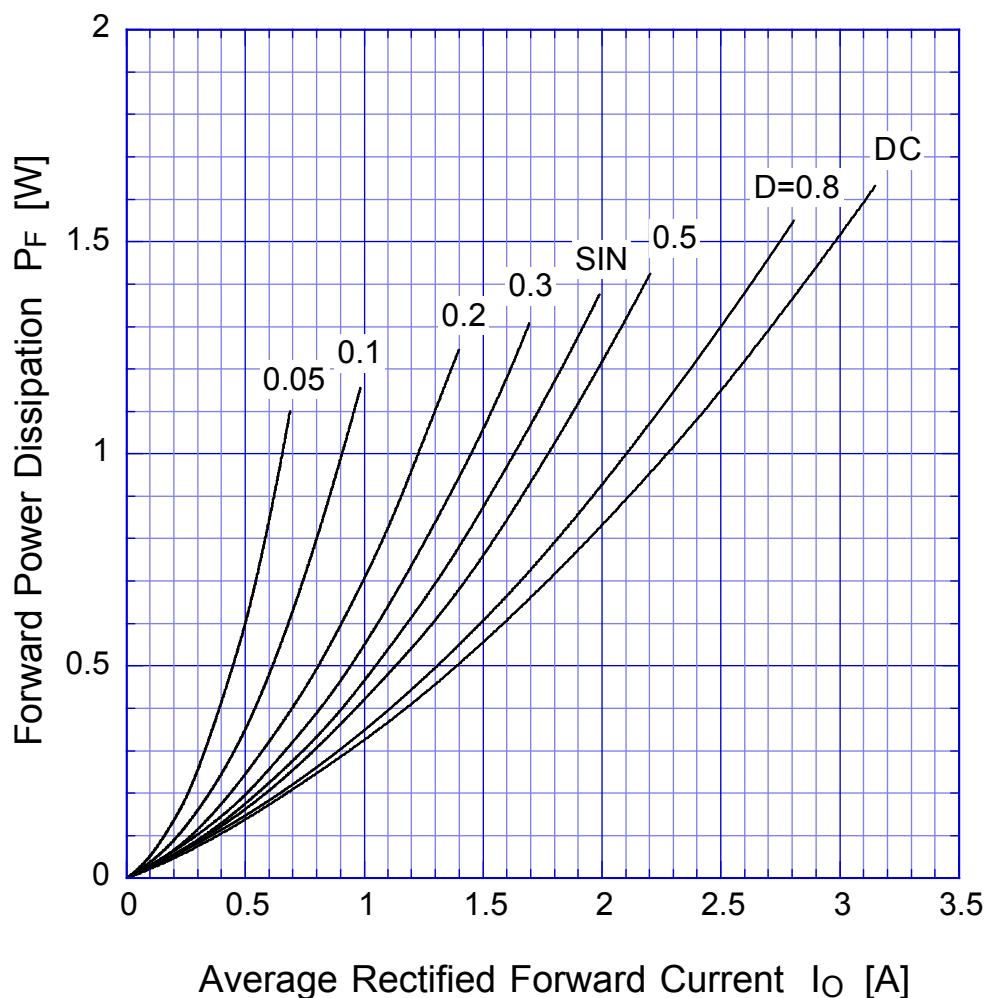
Reverse Current



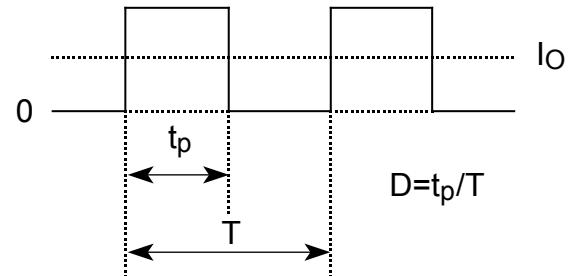


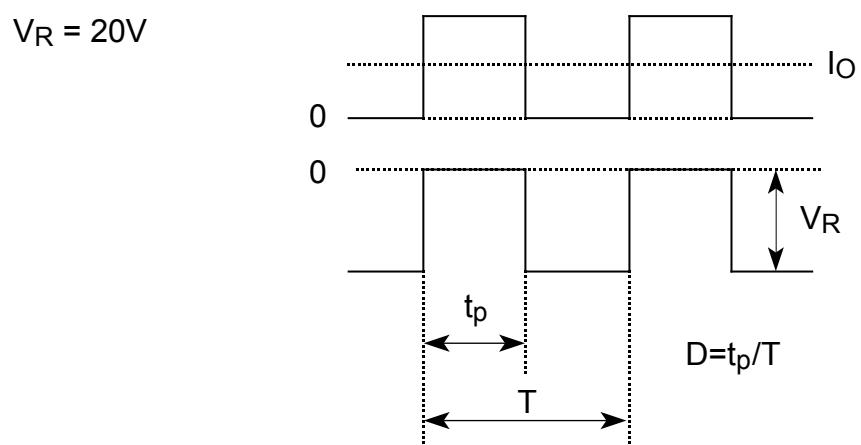
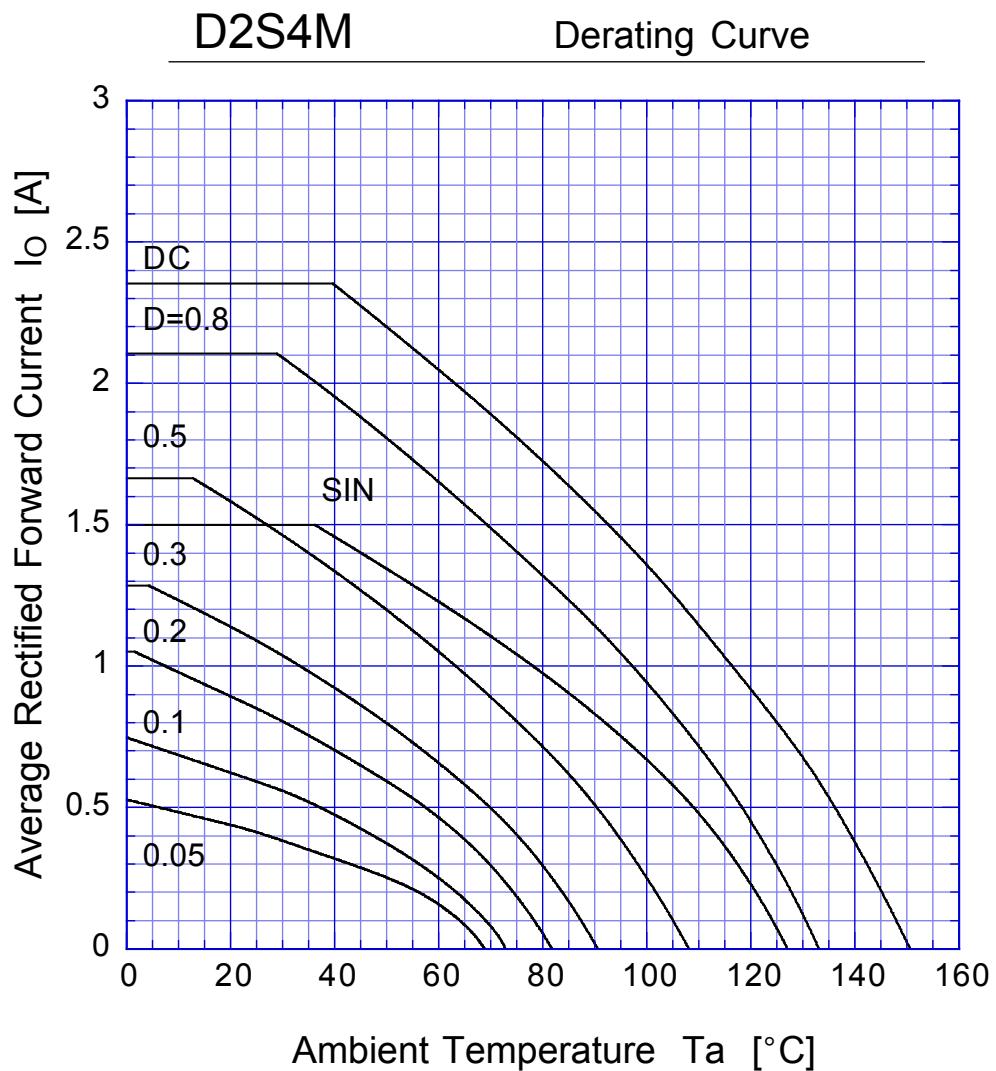
D2S4M

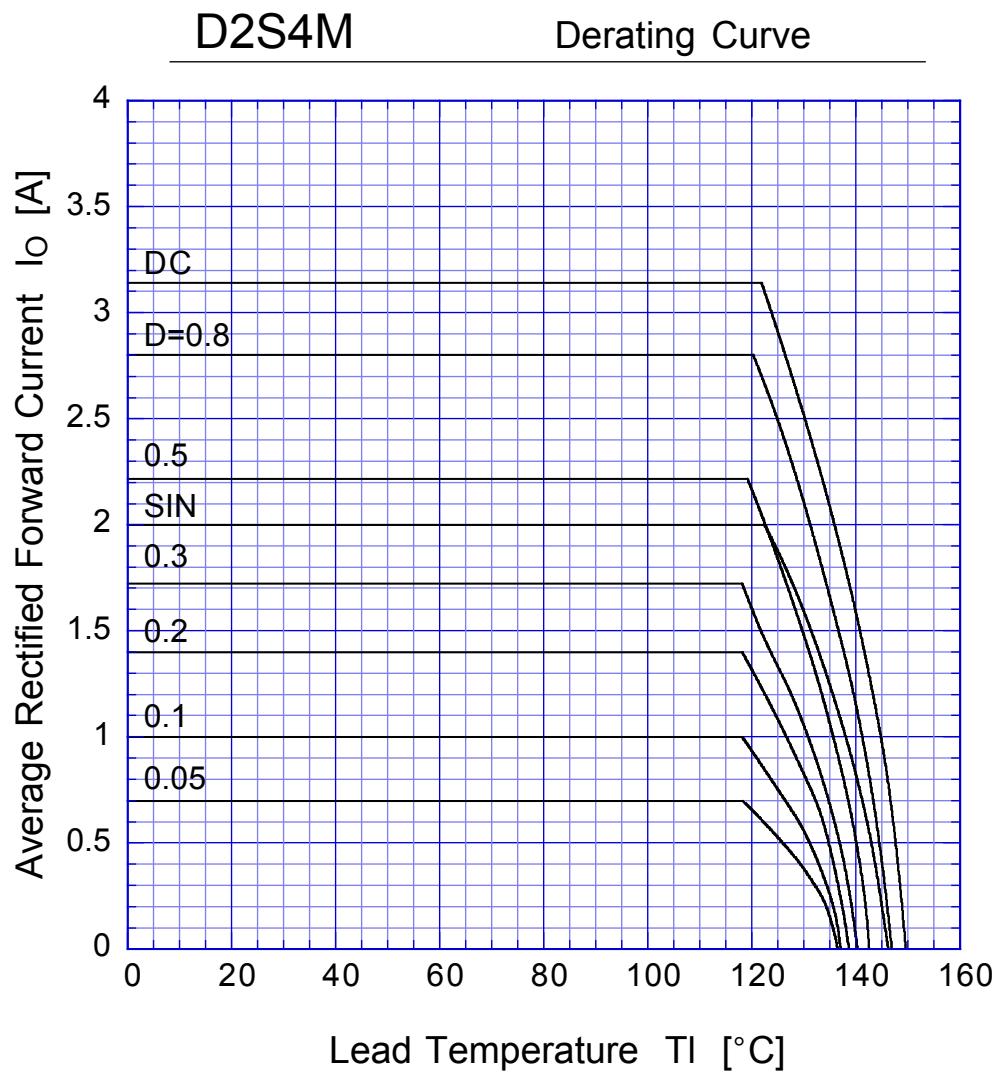
Forward Power Dissipation



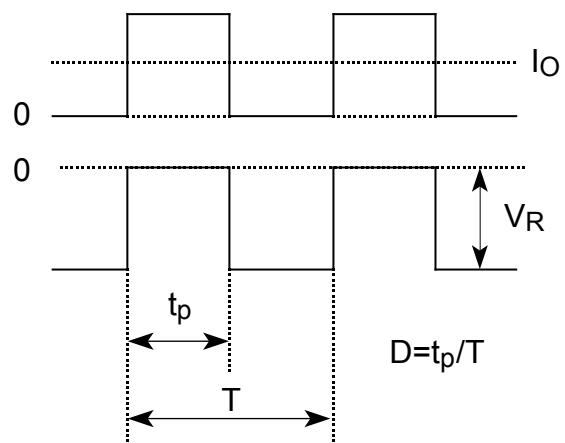
$T_j = 150^\circ\text{C}$





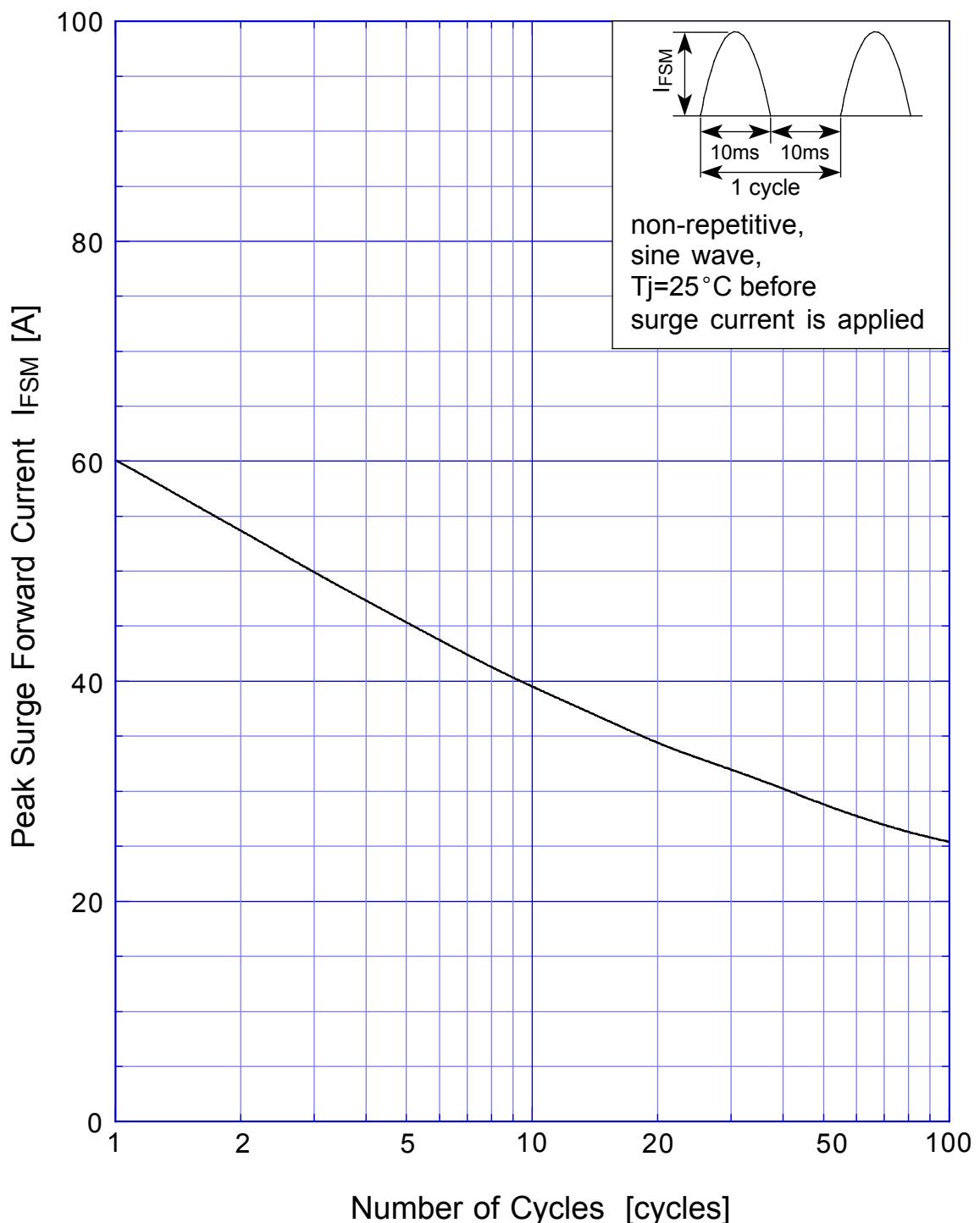


$V_R = 20V$

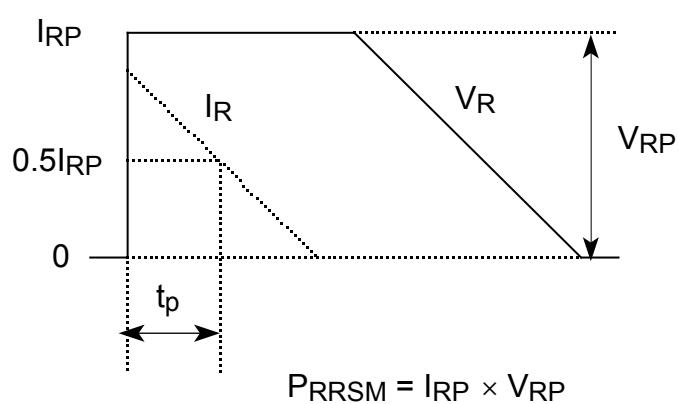
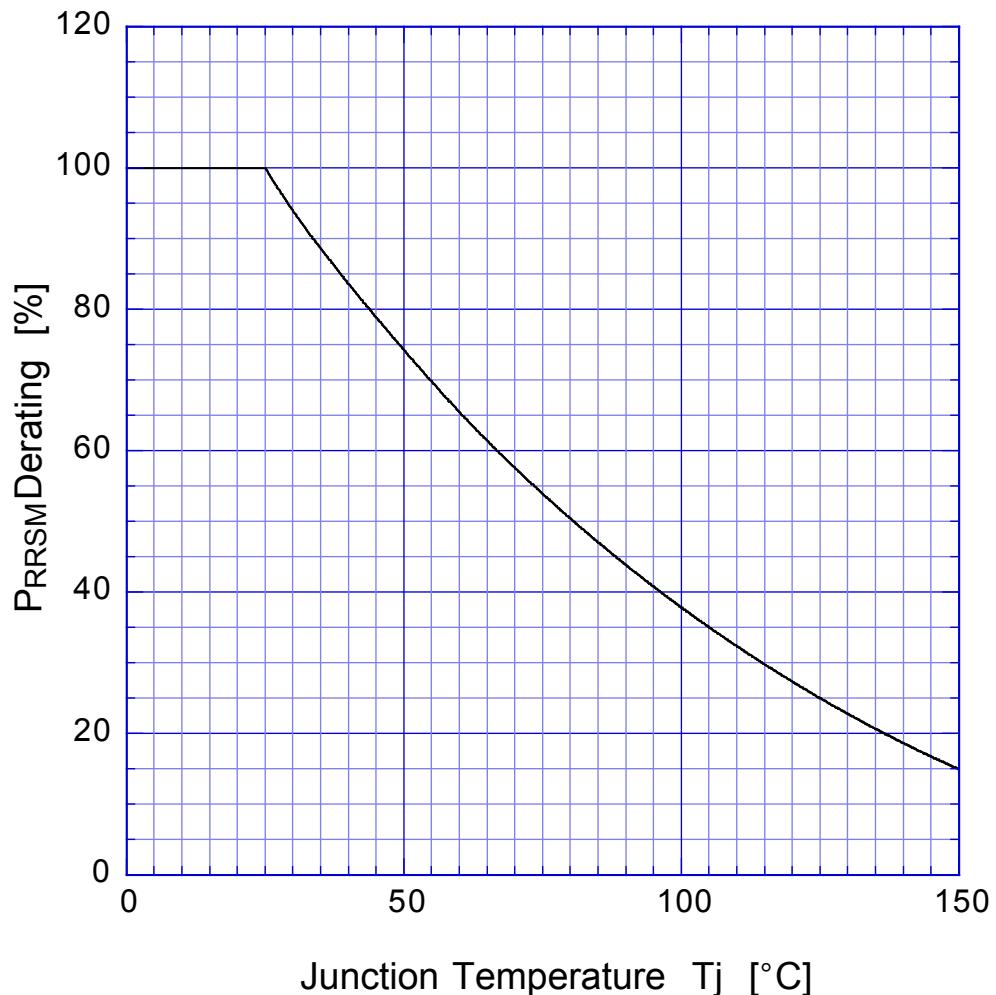


D2S4M

Peak Surge Forward Capability



SBD Repetitive Surge Reverse Power Derating Curve



SBD Repetitive Surge Reverse Power Capability

