

SHINDENGEN

Schottky Rectifiers (SBD)

Dual

DE5SC6M

60V 5A

FEATURES

SMT

T_j150

P_{RRSM} avalanche guaranteed

High current capacity with Small Package

APPLICATION

Switching power supply

DC/DC converter

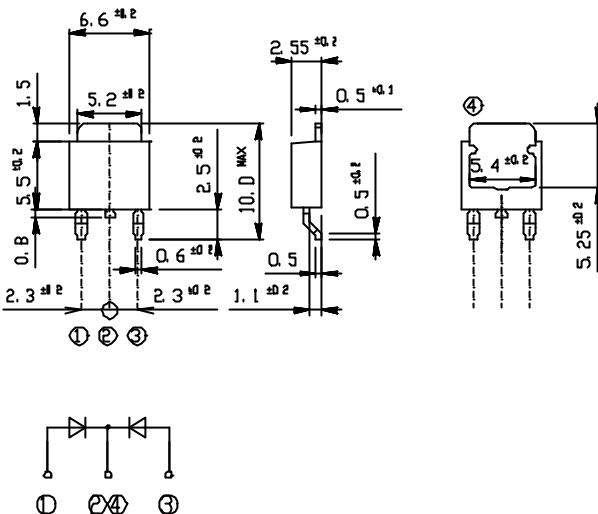
Home Appliances, Office Equipment

Telecommunication

OUTLINE DIMENSIONS

Case : E-pack

Unit : mm



RATINGS

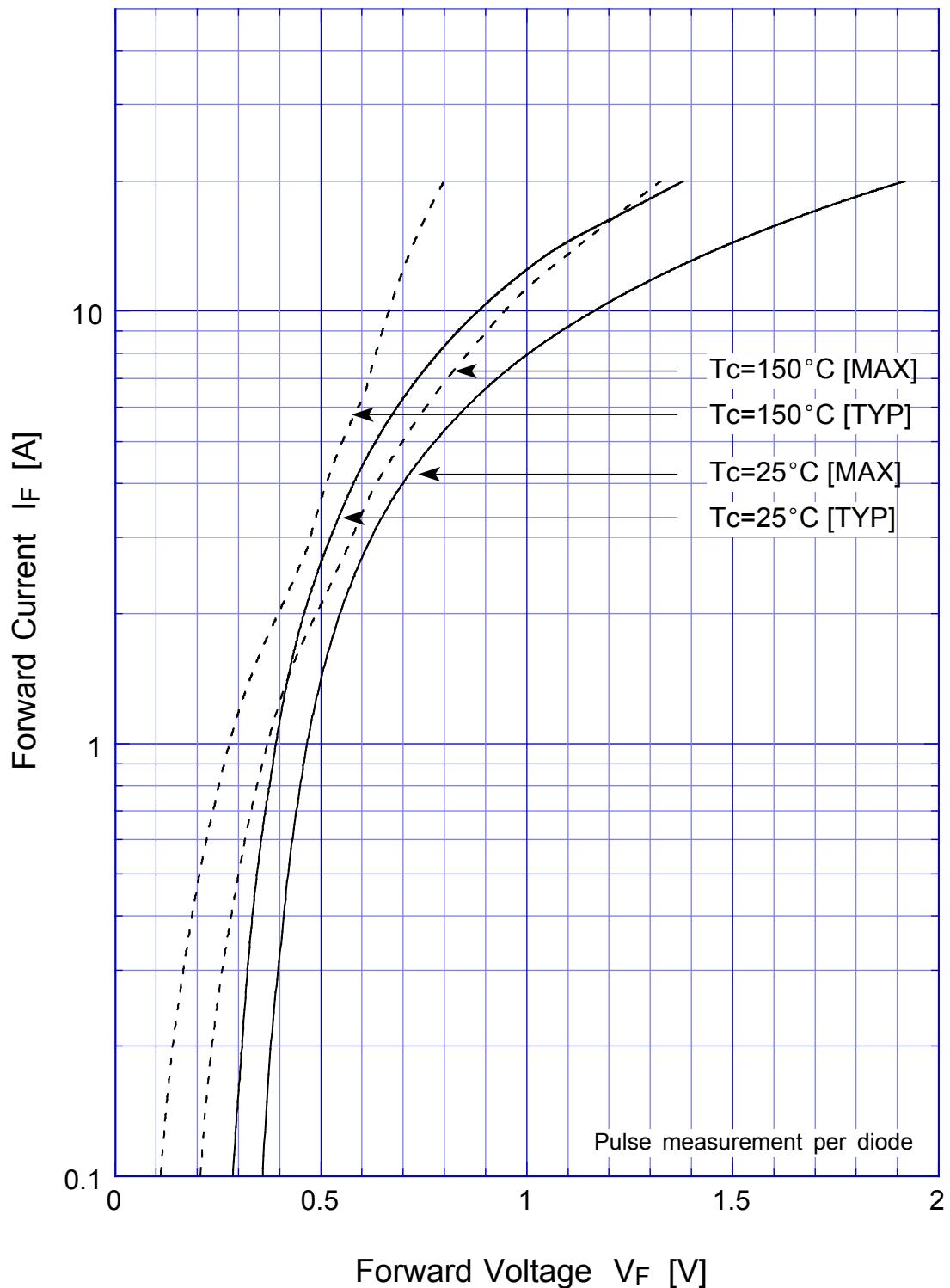
Absolute Maximum Ratings (If not specified T_c=25)

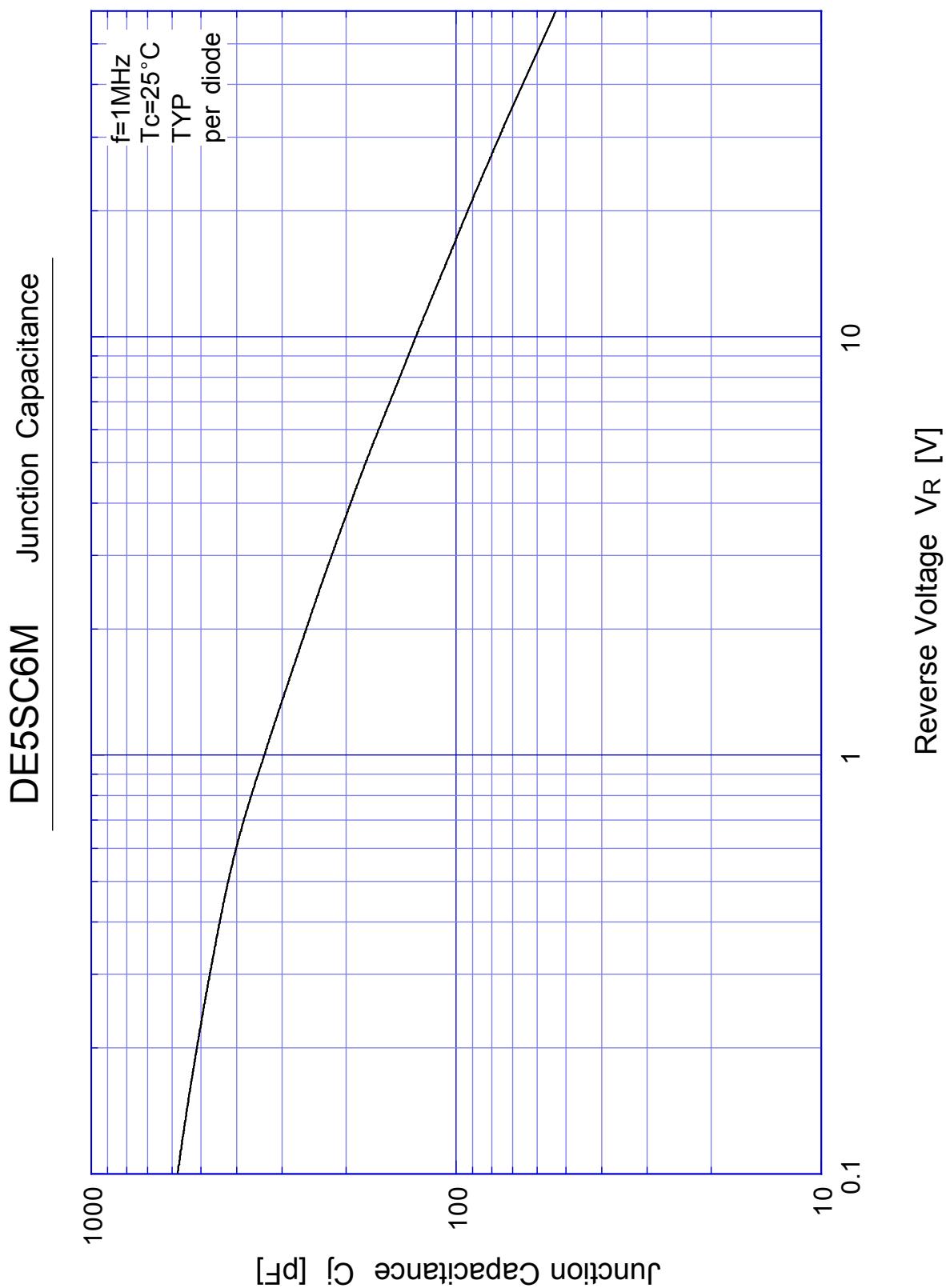
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	T _{stg}		-40 ~ 150	
Operating Junction Temperature	T _j		150	
Maximum Reverse Voltage	V _{RM}		60	V
Repetitive Peak Surge Reverse Voltage	V _{RRSM}	Pulse width 0.5ms, duty 1/40	65	V
Average Rectified Forward Current	I _o	50Hz sine wave, R-load, Rating for each diode I _o /2, T _a =42 , On alumina substrate	2.5	A
		50Hz sine wave, R-load, Rating for each diode I _o /2, T _c =92	5	
Peak Surge Forward Current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, T _j =125	80	A
Repetitive Peak Surge Reverse Power	P _{RRSM}	Pulse width 10 μs, Rating of per diode, T _j =25	330	W

Electrical Characteristics (If not specified T_c=25)

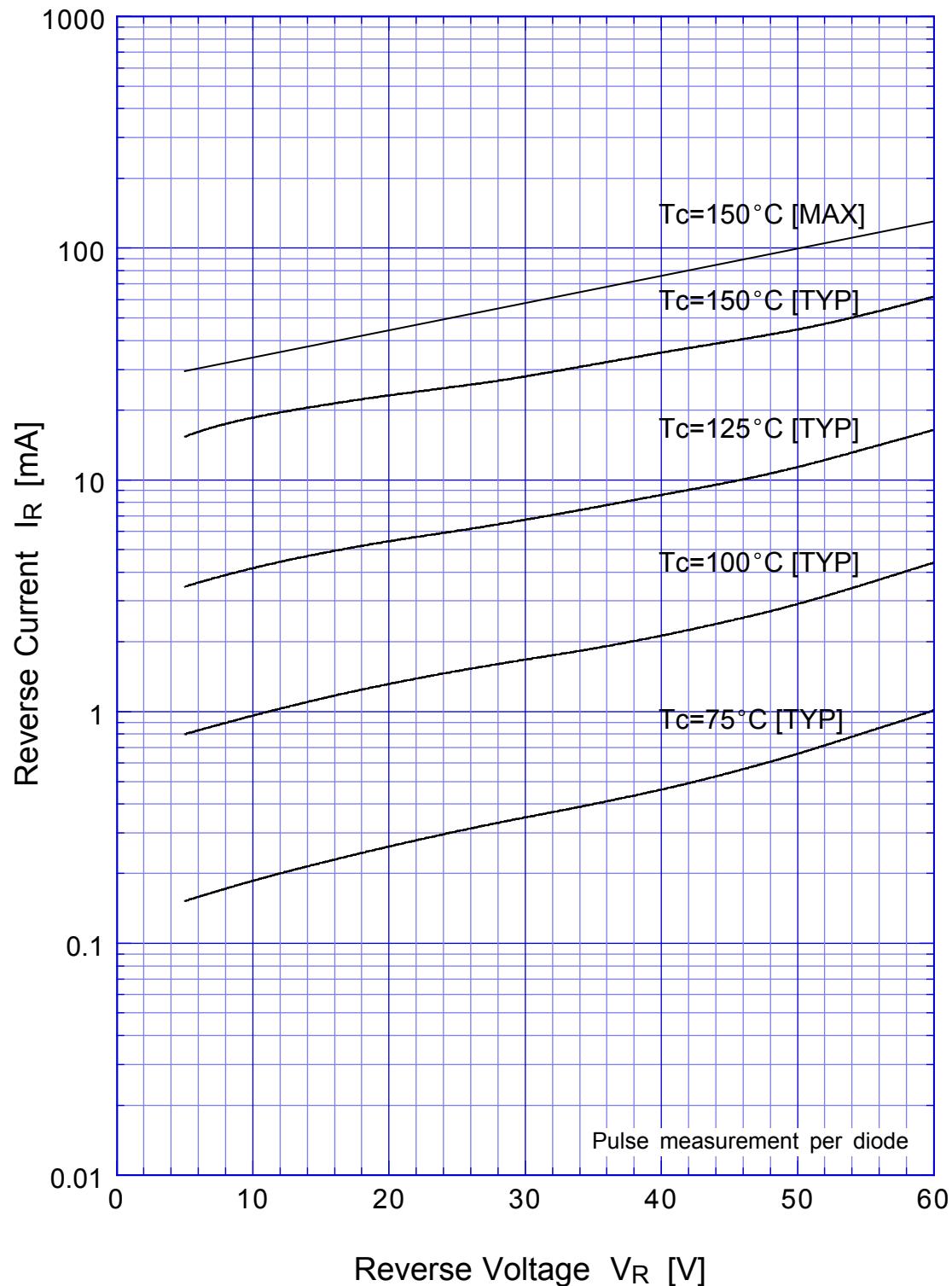
Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V _F	I _F =2.5A, Pulse measurement, Rating of per diode	Max.0.58	V
Reverse Current	I _R	V _R =VRM, Pulse measurement, Rating of per diode	Max.2.5	mA
Junction Capacitance	C _j	f=1MHz, V _R =10V, Rating of per diode	Typ.130	pF
Thermal Resistance	j _c	junction to case	Max.12	/W
	j _a	junction to ambient	Max.55	

DE5SC6M Forward Voltage

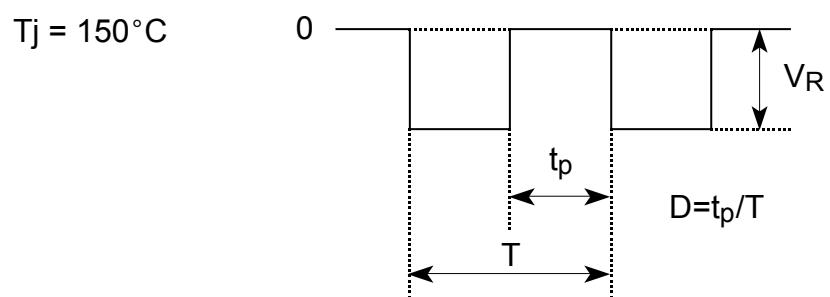
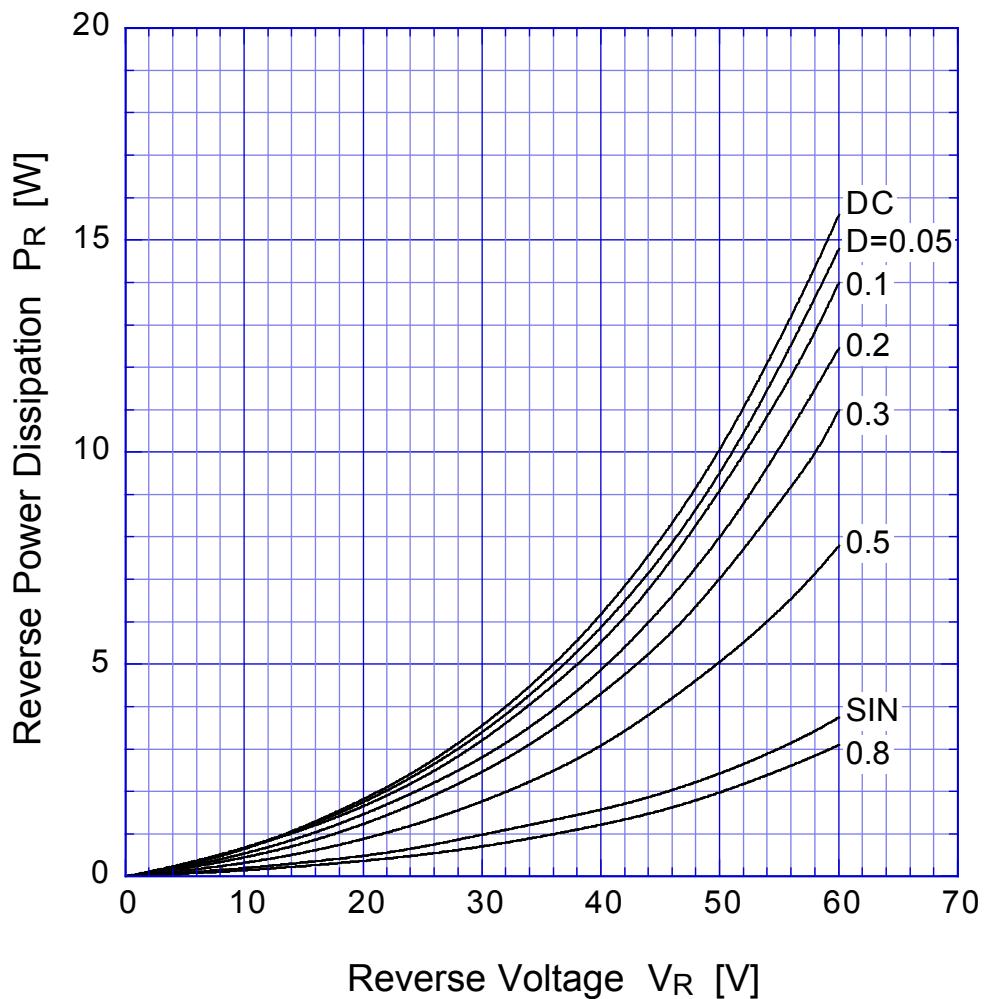




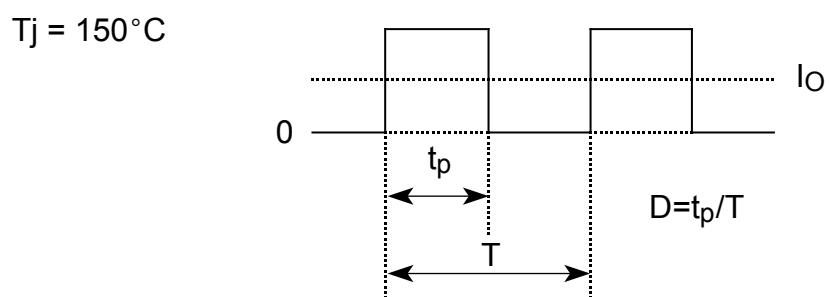
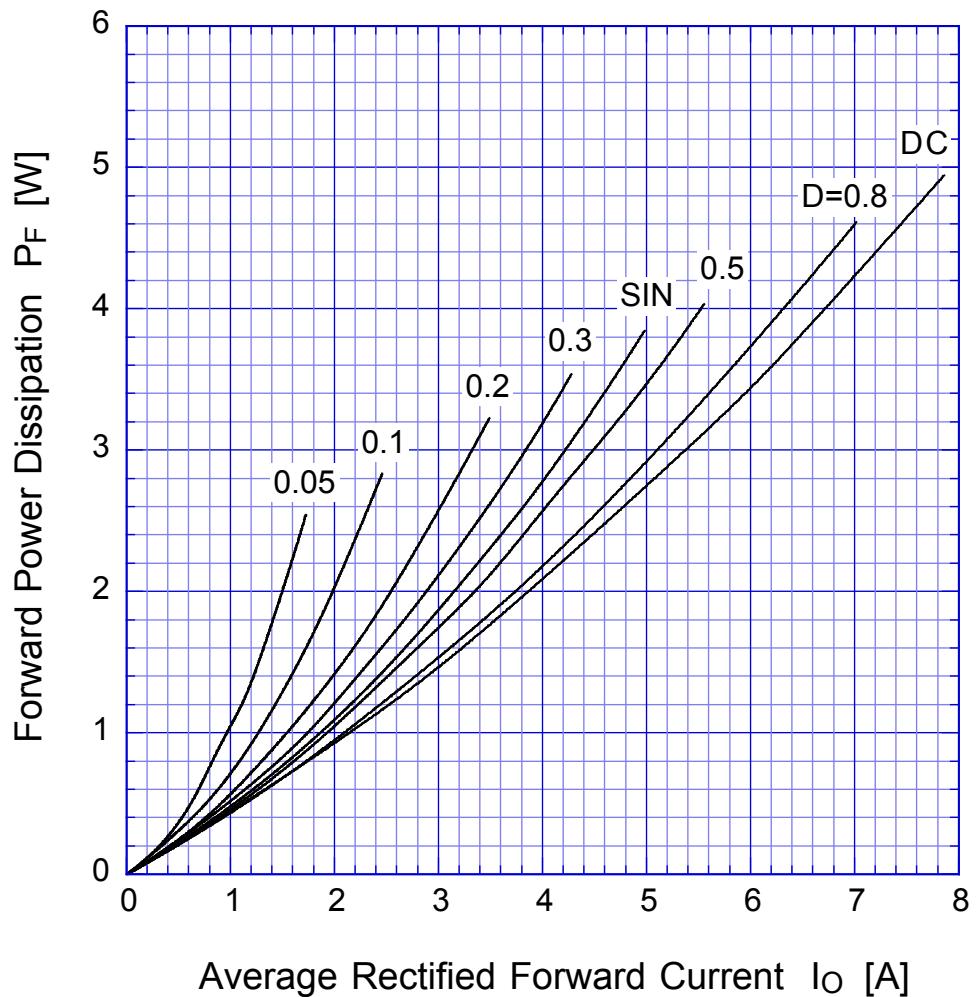
DE5SC6M Reverse Current

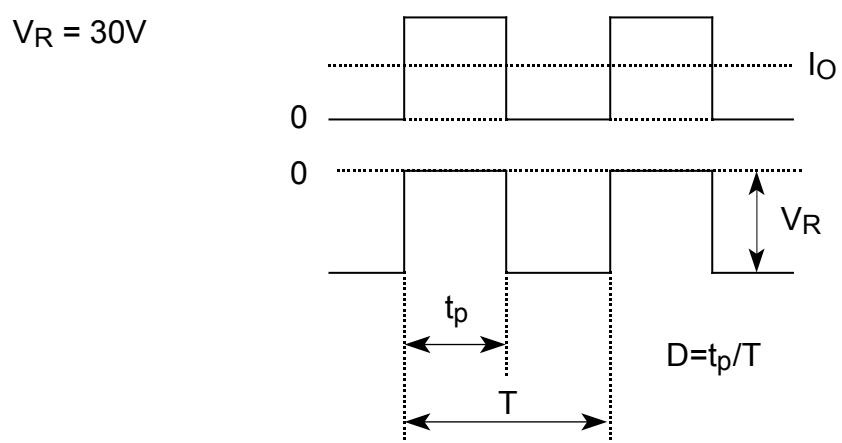
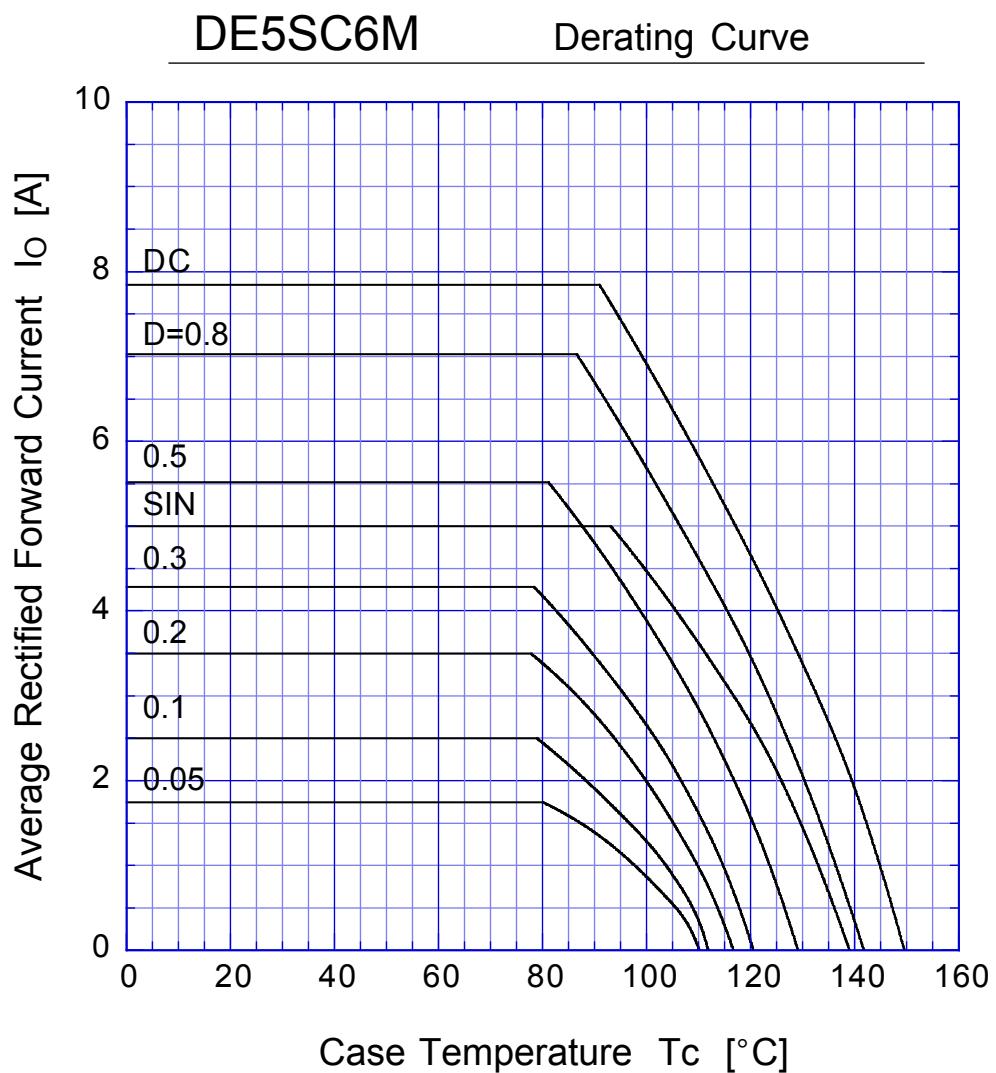


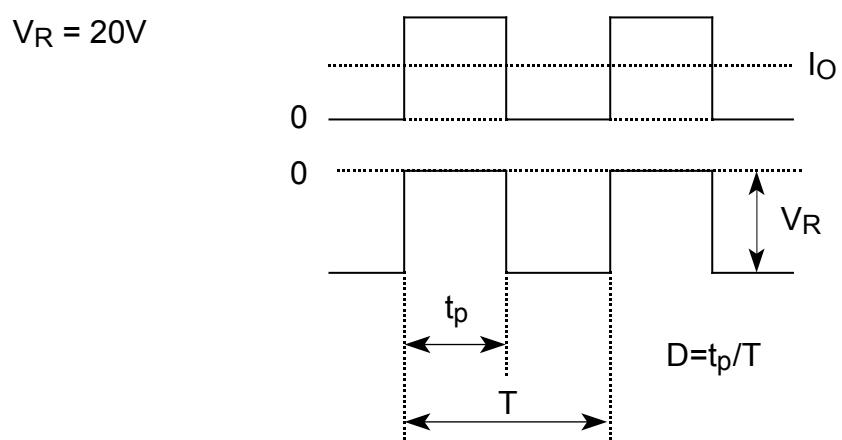
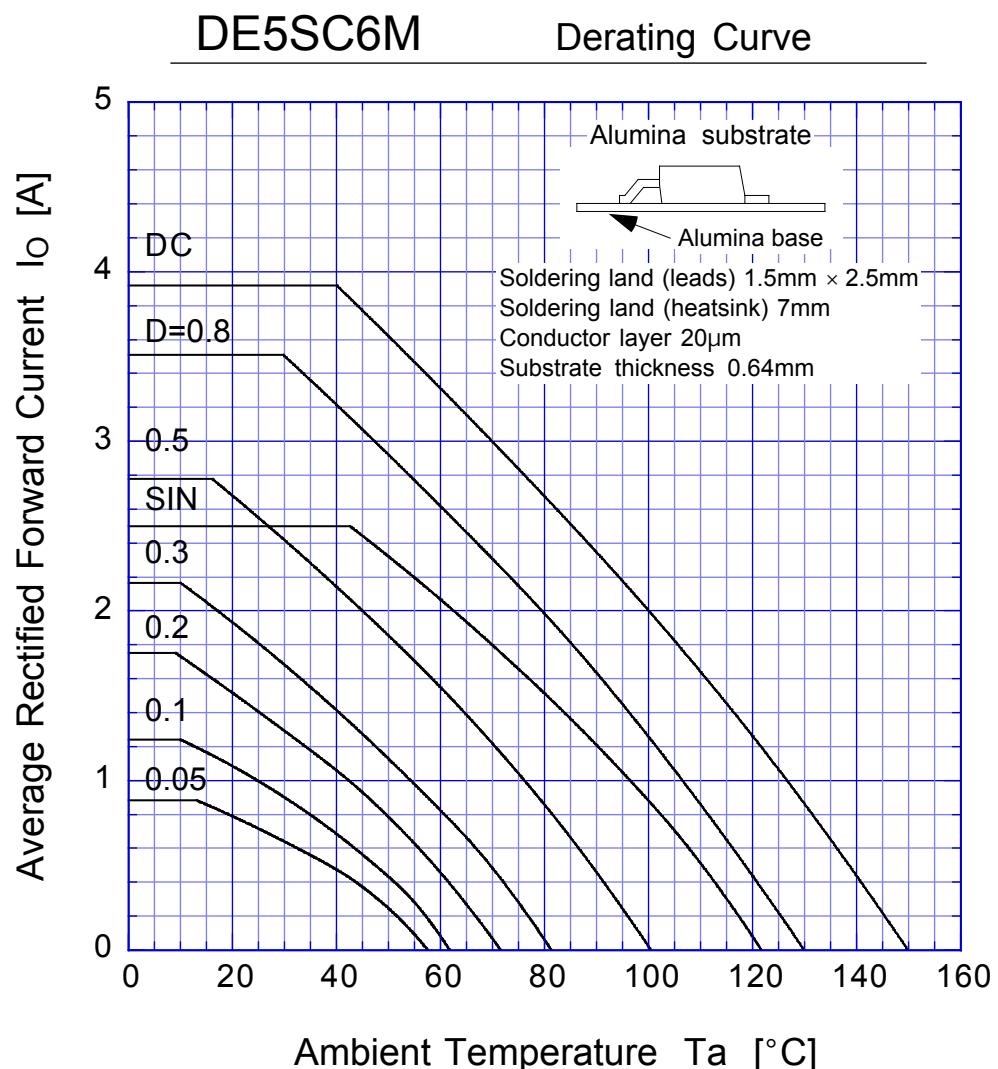
DE5SC6M Reverse Power Dissipation



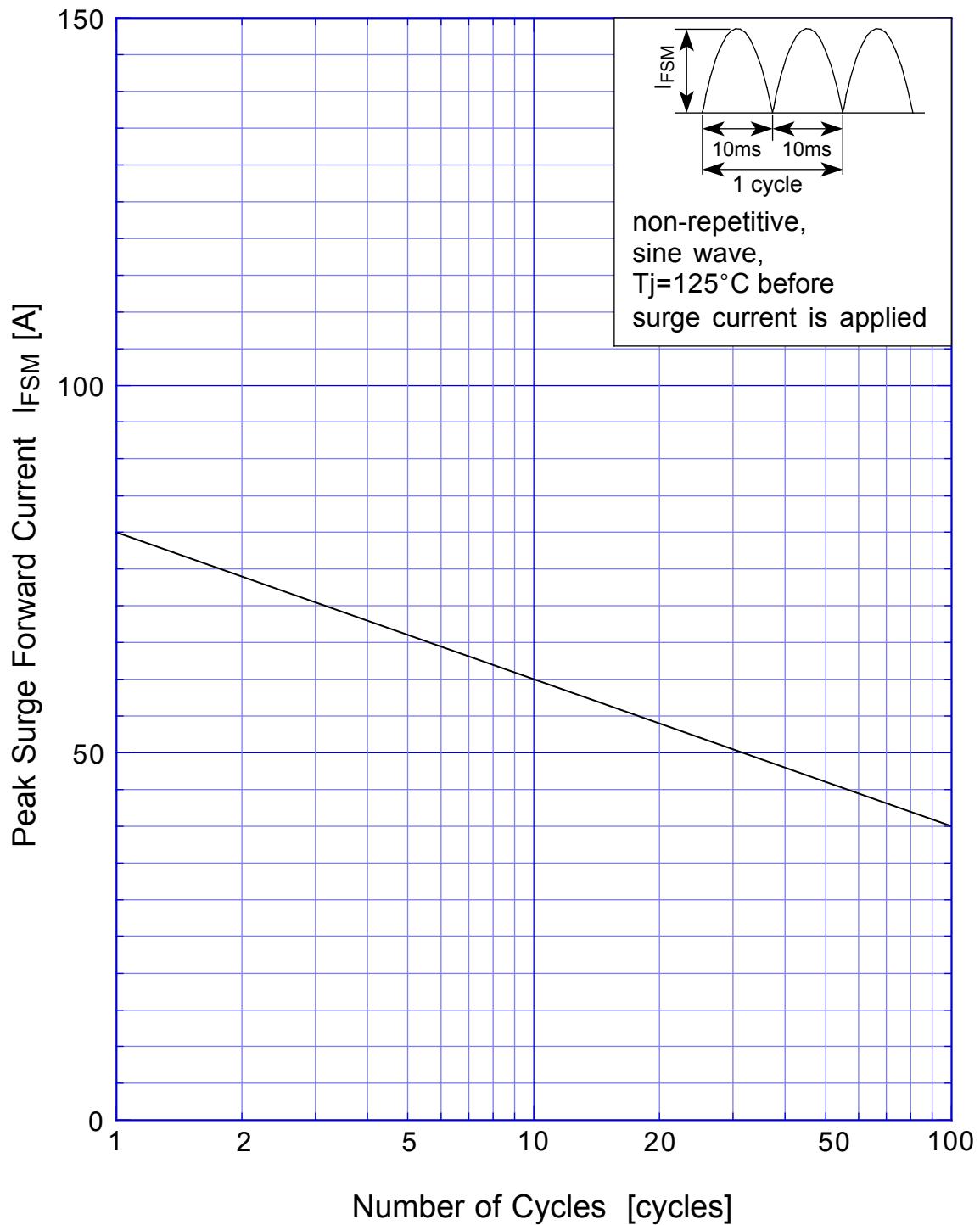
DE5SC6M Forward Power Dissipation



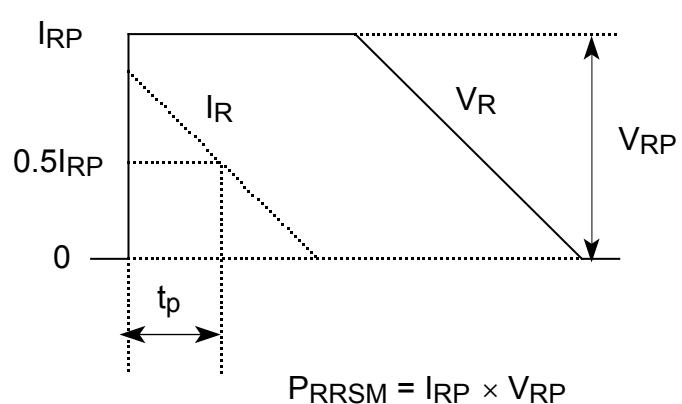
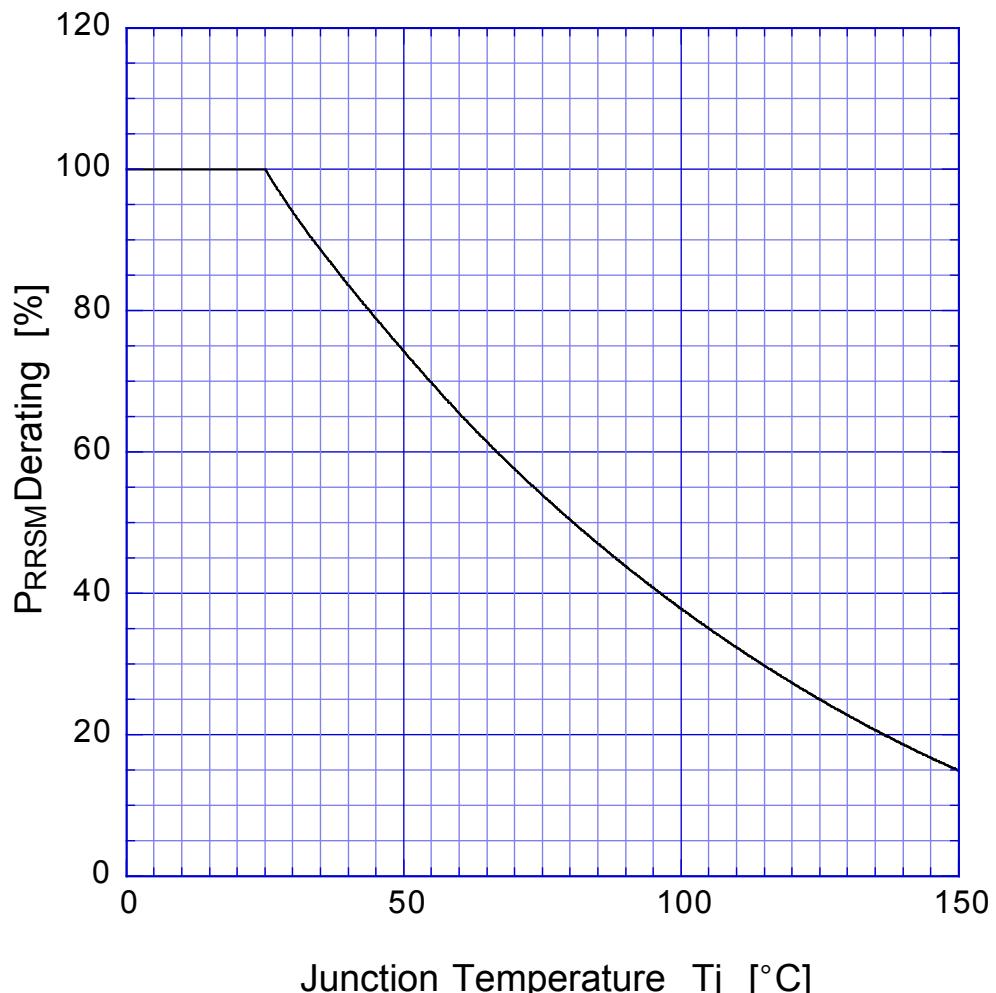




DE5SC6M Peak Surge Forward Capability



SBD Repetitive Surge Reverse Power Derating Curve



SBD Repetitive Surge Reverse Power Capability

