

SHINDENGEN

Schottky Rectifiers (SBD)

Dual

SF5SC4

40V 5A

FEATURES

T_j150

P_{RRSM} avalanche guaranteed

Fully Isolated Molding

Dielectric strength 2kV guaranteed

APPLICATION

Switching power supply

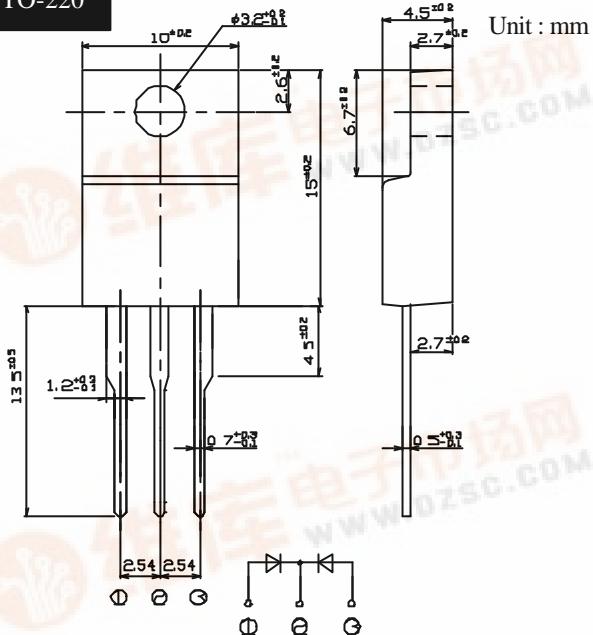
DC/DC converter

Home Appliances, Office Equipment

Telecommunication

OUTLINE DIMENSIONS

Case : FTO-220



RATINGS

Absolute Maximum Ratings (If not specified T_c=25)

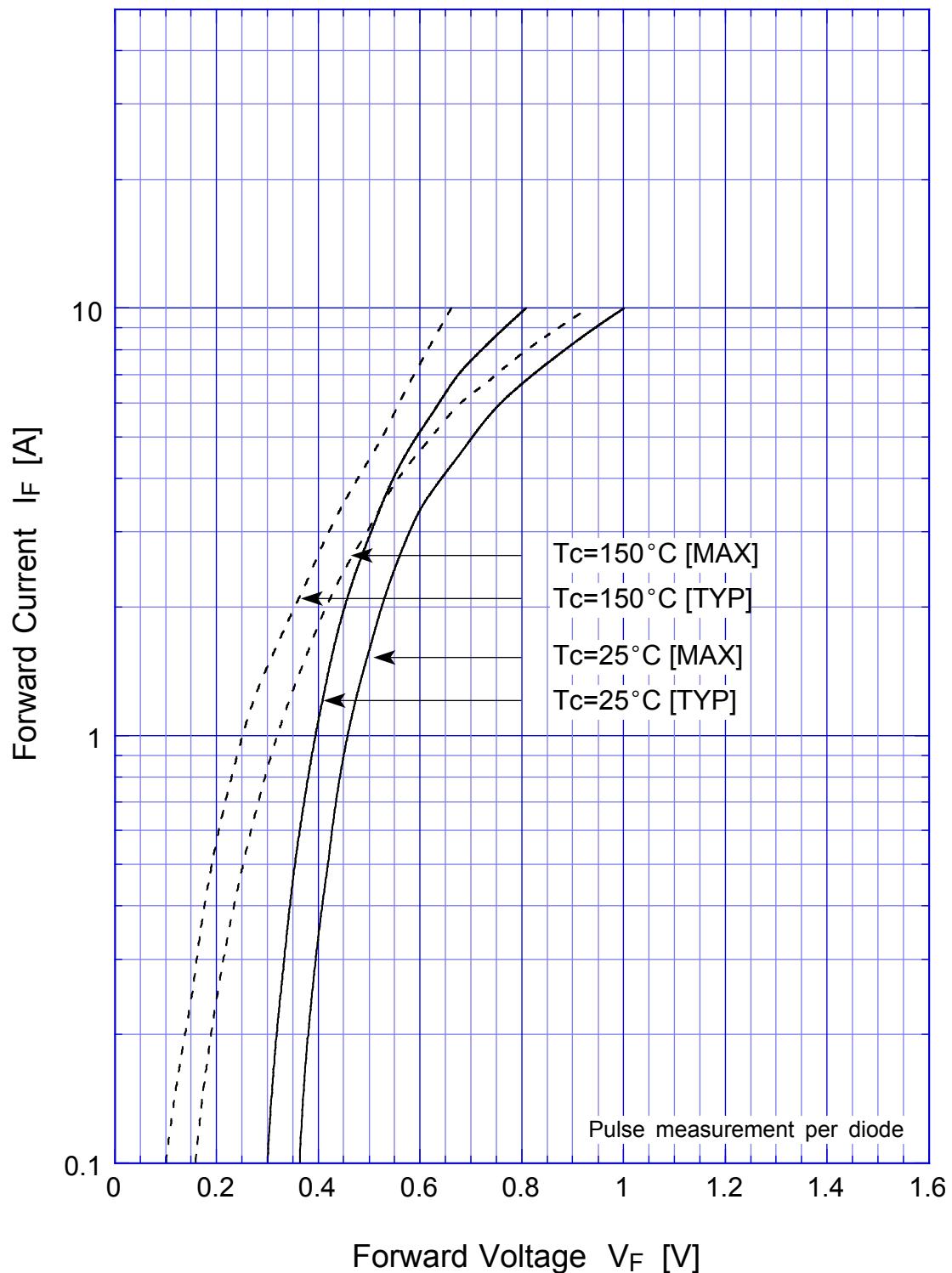
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	T _{stg}		-40 ~ 150	
Operating Junction Temperature	T _j		150	
Maximum Reverse Voltage	V _{RM}		40	V
Repetitive Peak Surge Reverse Voltage	V _{RRSM}	Pulse width 0.5ms, duty 1/40	45	V
Average Rectified Forward Current	I _o	50Hz sine wave, R-load, Rating for each diode I _o /2, T _c =140	5	A
Peak Surge Forward Current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, T _j =25	80	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	2	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 =2.5A, 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.2.5	mA
Junction Capacitance	C _j	f=1MHz, V _R =10V, Rating of per diode	Typ.116	pF
Thermal Resistance	j _C	junction to case	Max.2.3	/W

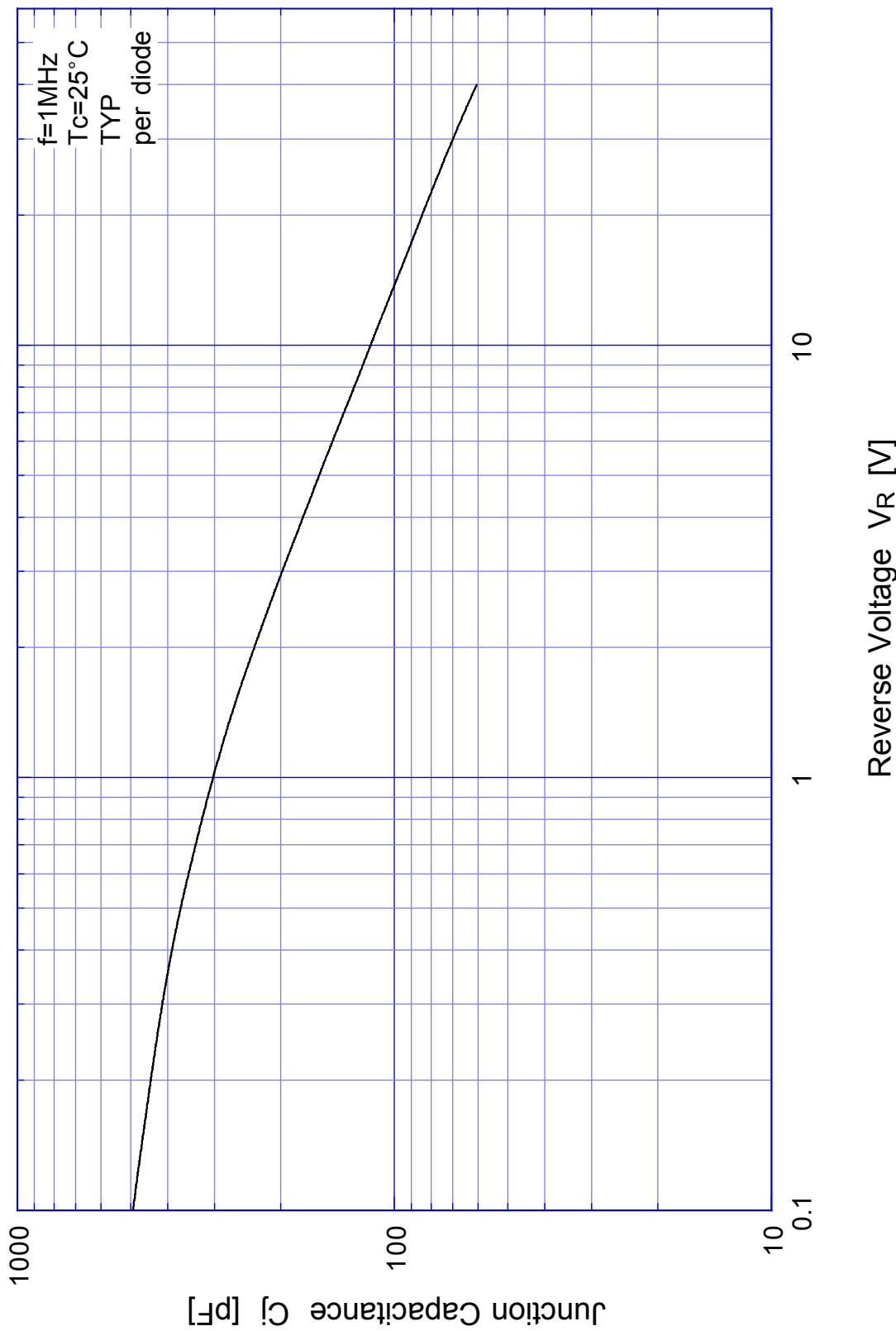
SF5SC4

Forward Voltage



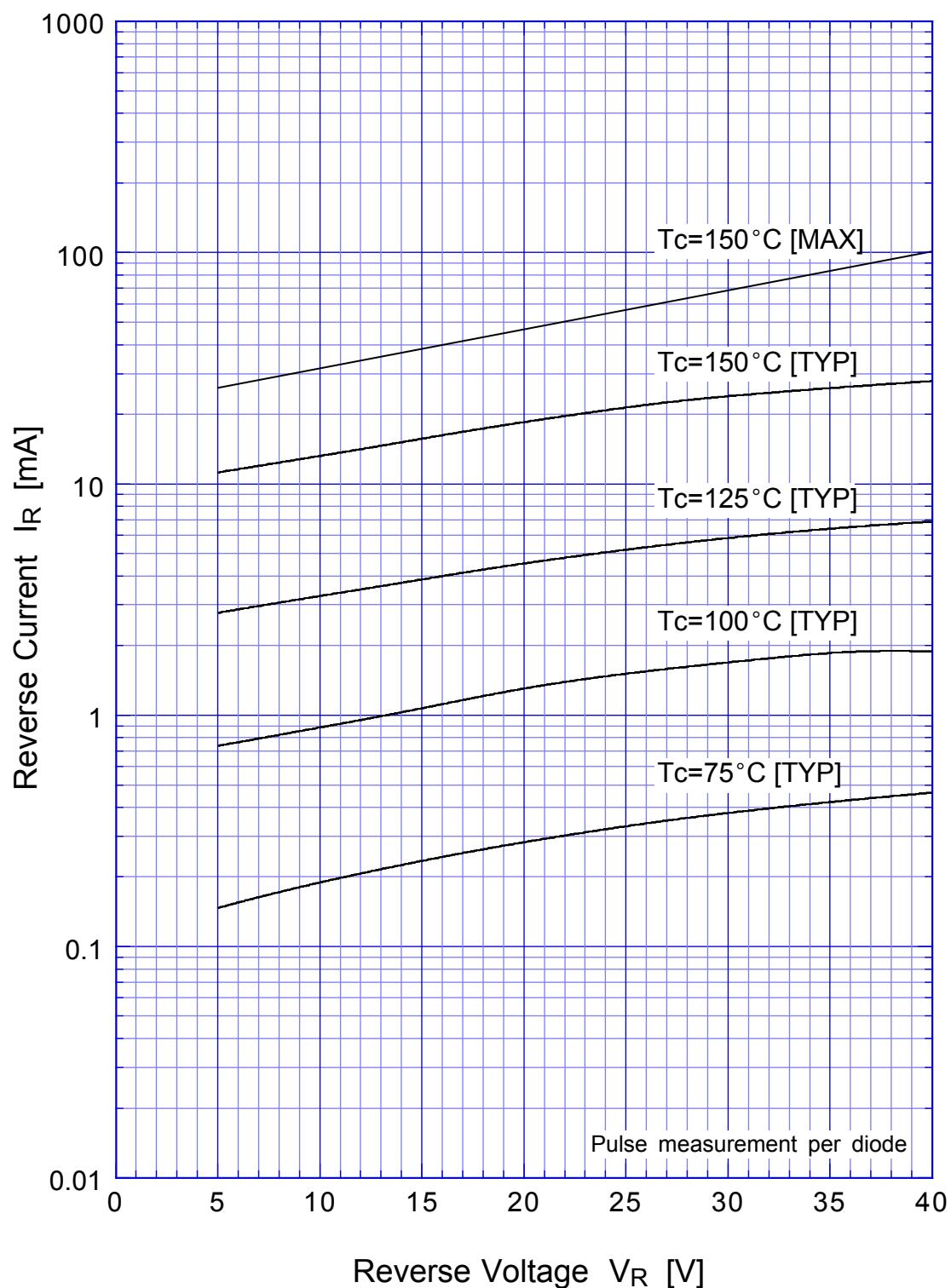
SF5SC4

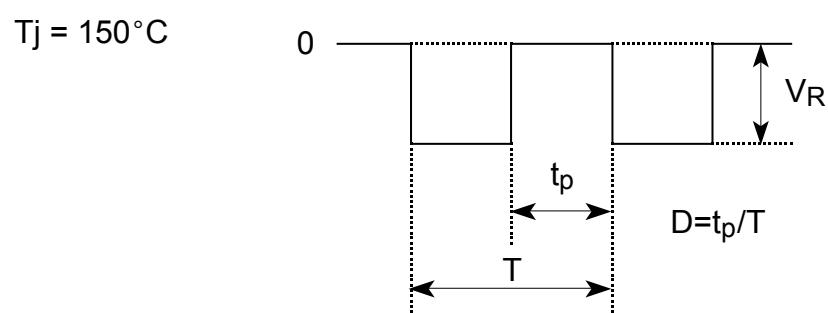
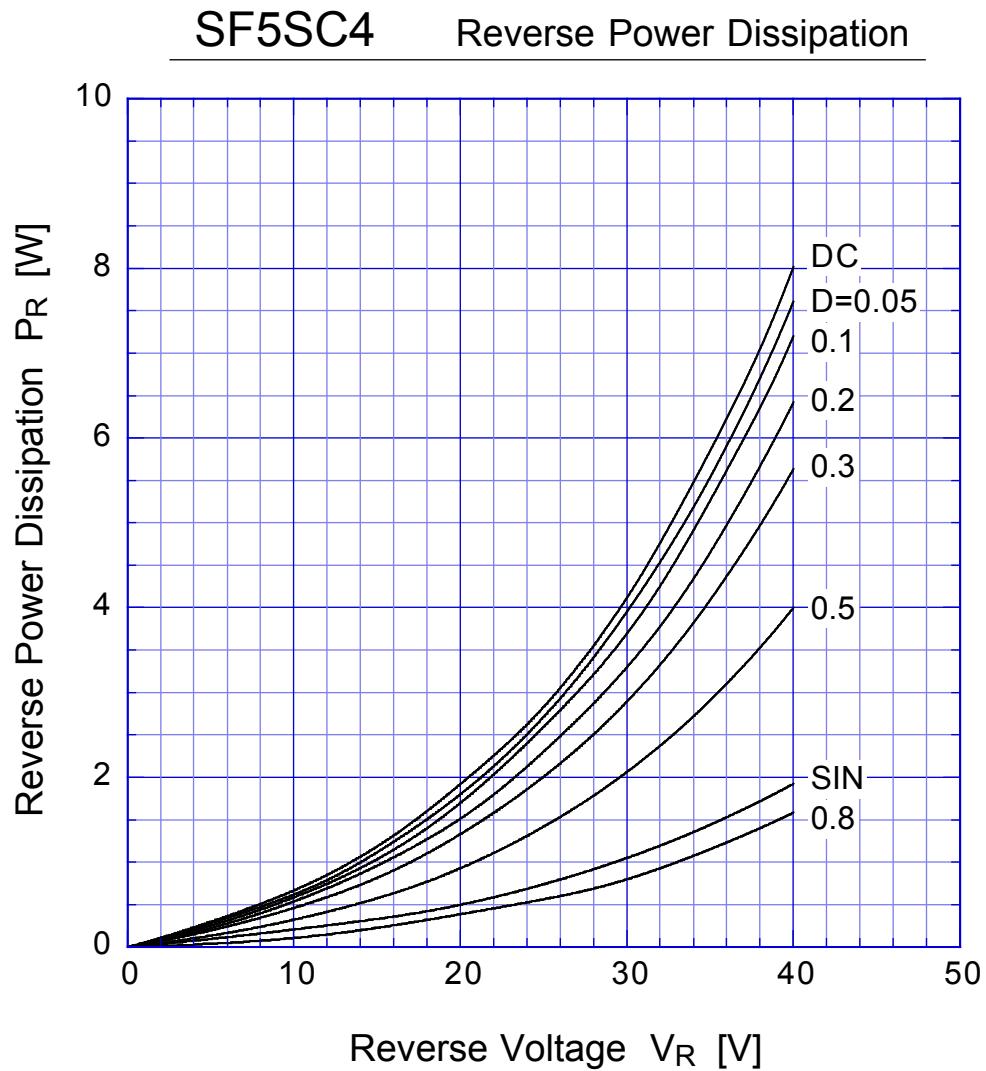
Junction Capacitance



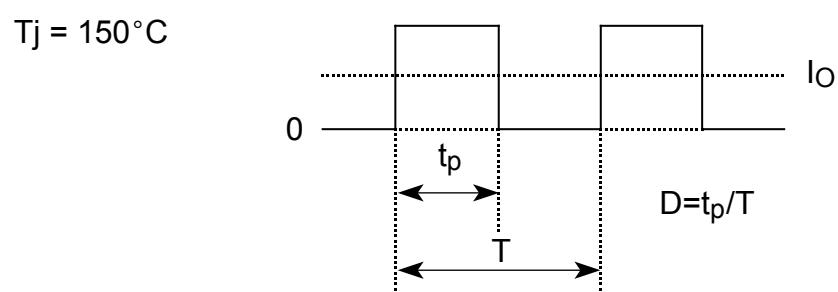
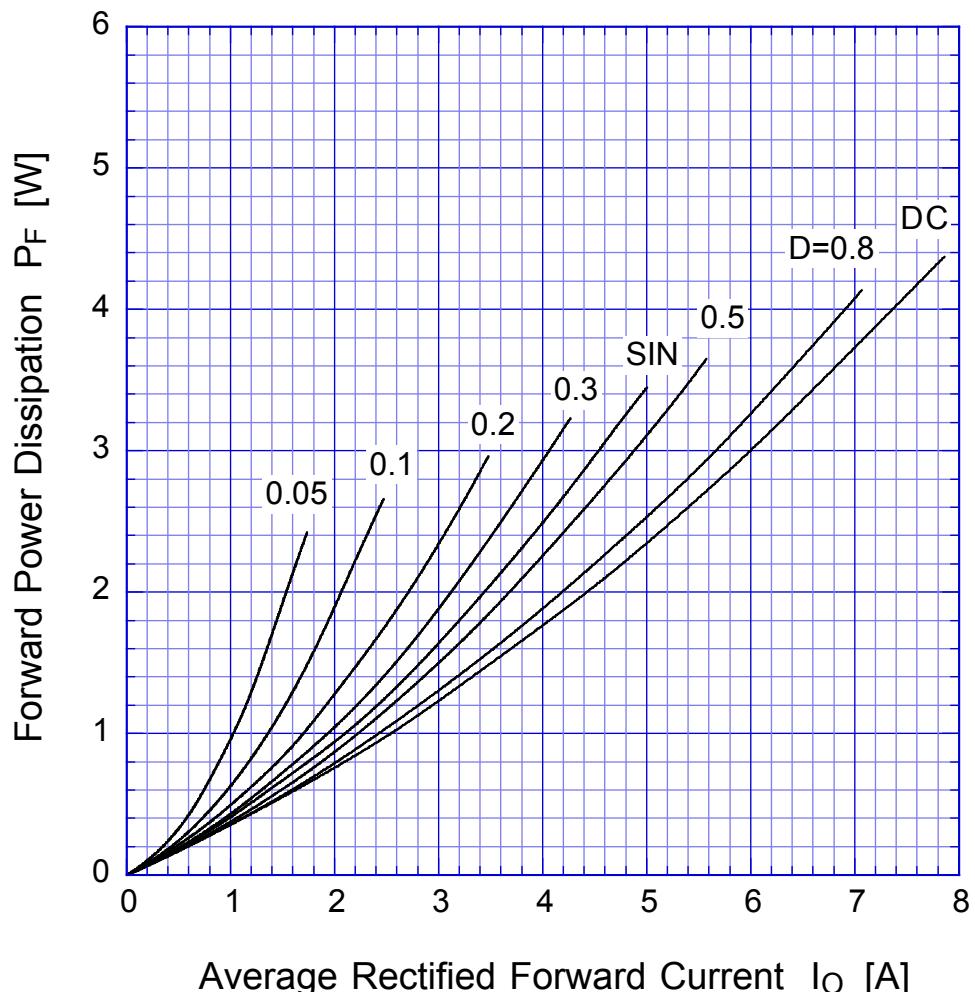
SF5SC4

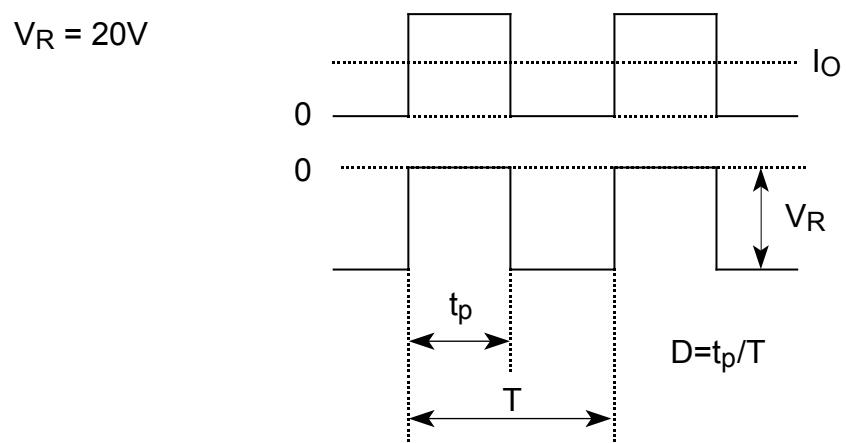
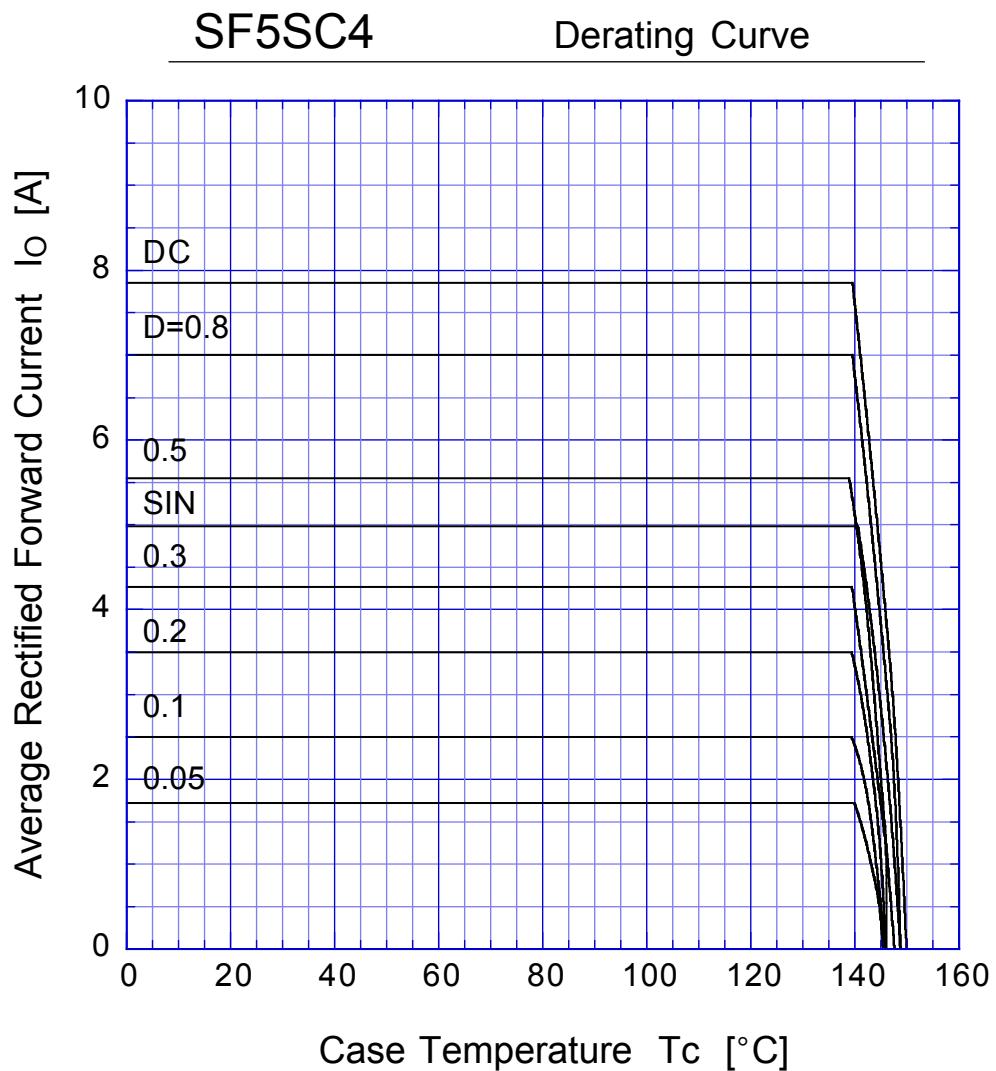
Reverse Current





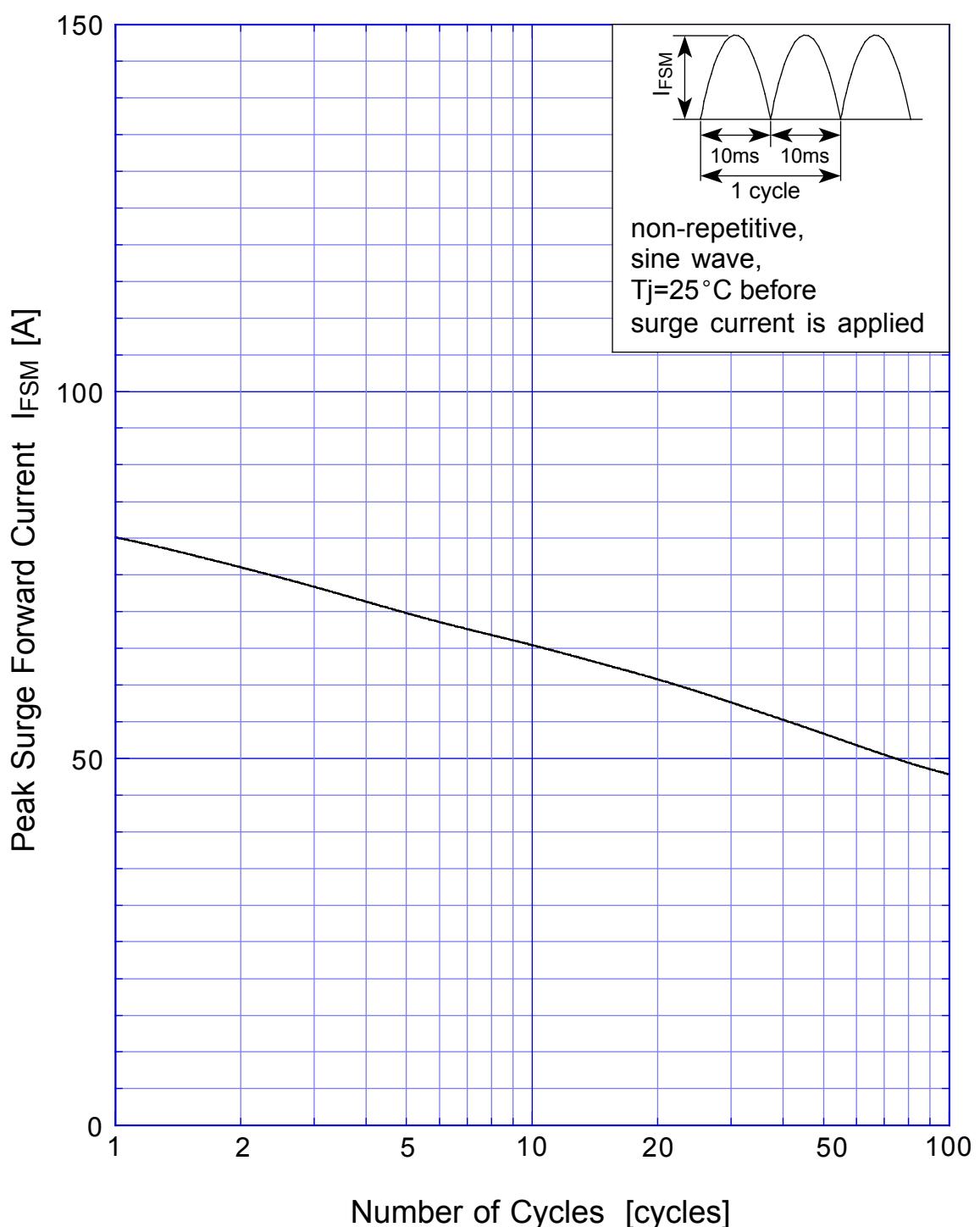
SF5SC4 Forward Power Dissipation



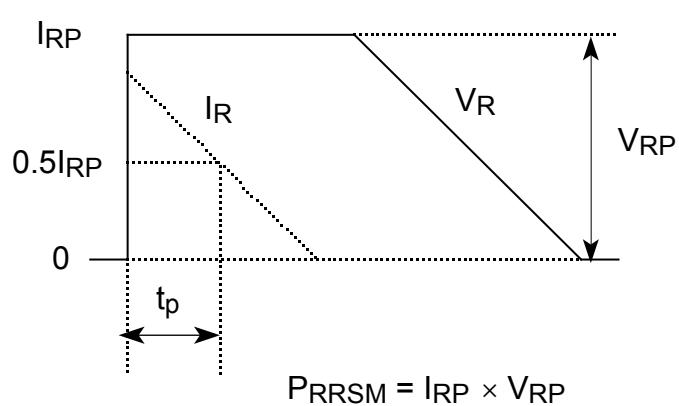
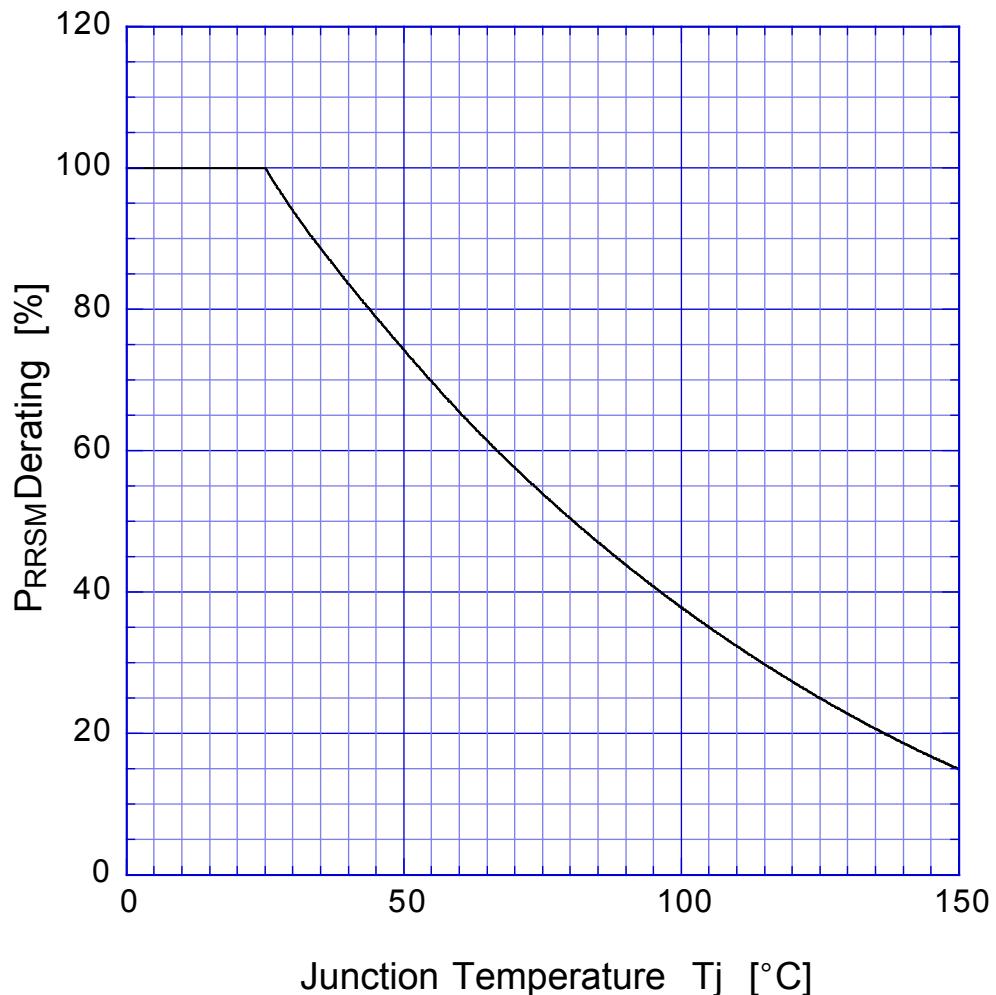


SF5SC4

Peak Surge Forward Capability



SBD Repetitive Surge Reverse Power Derating Curve



SBD Repetitive Surge Reverse Power Capability

