

SHINDENGEN

Schottky Rectifiers (SBD)

Dual

SF5SC3L

30V 5A

FEATURES

- T_j150
- Low V_F=0.45V
- P_{RRSM} avalanche guaranteed
- Fully Isolated Molding
- Dielectric strength 2kV guaranteed

APPLICATION

- Switching power supply
- DC/DC converter
- Home Appliances, Office Equipment
- Telecommunication

RATINGS

Absolute Maximum Ratings (If not specified T_c=25)

Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	T _{stg}		-55 ~ 150	
Operating Junction Temperature	T _j		150	
Maximum Reverse Voltage	V _{RM}		30	V
Repetitive Peak Surge Reverse Voltage	V _{RRSM}	Pulse width 0.5ms, duty 1/40	35	V
Average Rectified Forward Current	I _o	50Hz sine wave, R-load, Rating for each diode I _o /2, T _c =143	5	A
Peak Surge Forward Current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, T _j =25	100	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	2.0	kV
Mounting Torque	T _{OR}	(Recommended torque 0.3N·m)	0.5	N·m

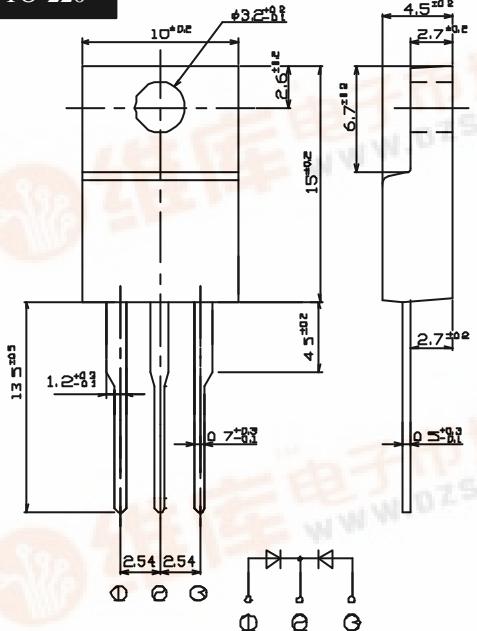
Electrical Characteristics (If not specified T_c=25)

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V _F	I _F =2.5A, Pulse measurement, Rating of per diode	Max.0.45	V
Reverse Current	I _R	V _R =V _{RM} , Pulse measurement, Rating of per diode	Max.3.5	mA
Junction Capacitance	C _j	f=1MHz, V _R =10V, Rating of per diode	Typ.220	pF
Thermal Resistance	j _C	junction to case	Max.2.3	/W

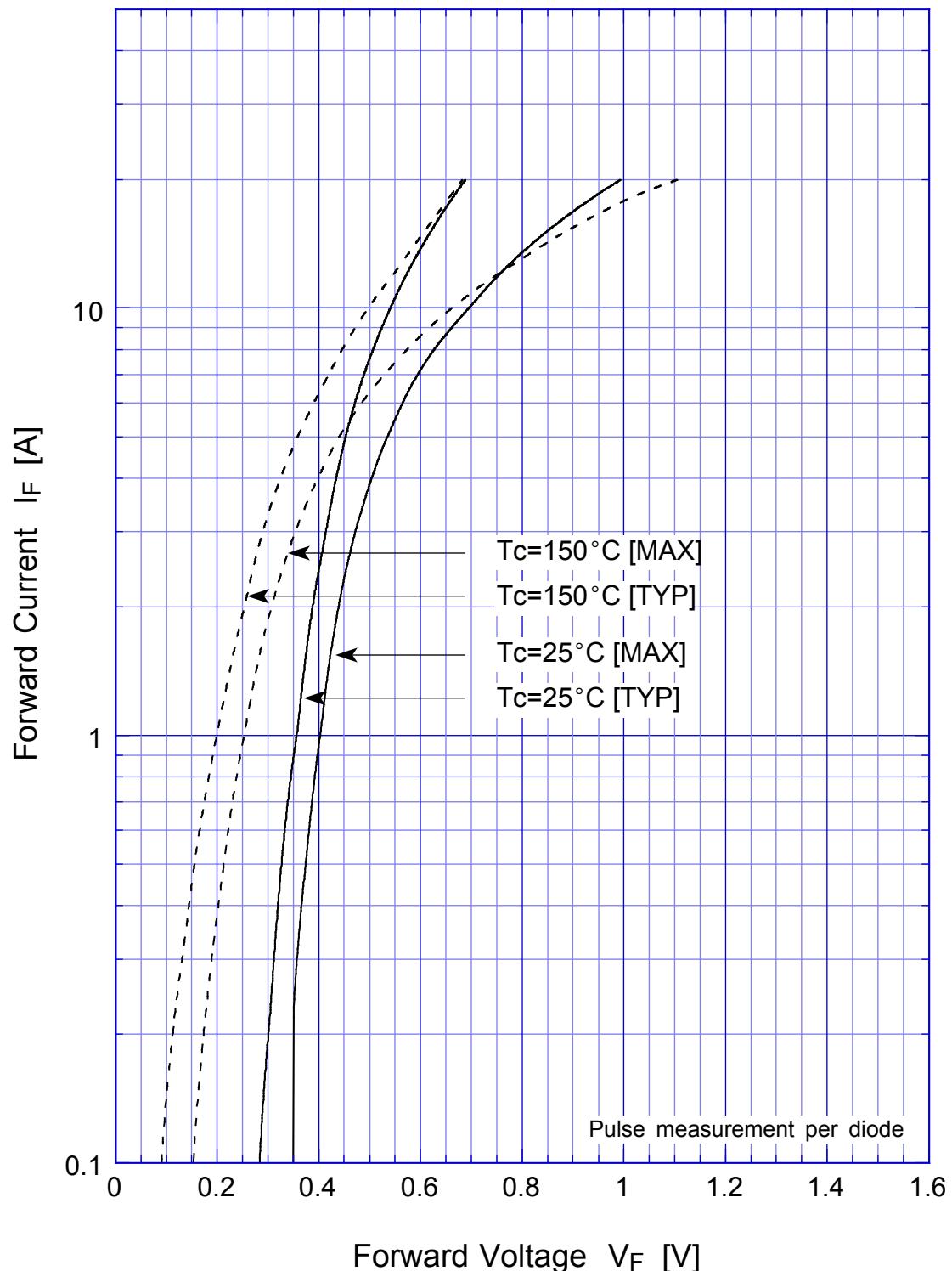
OUTLINE DIMENSIONS

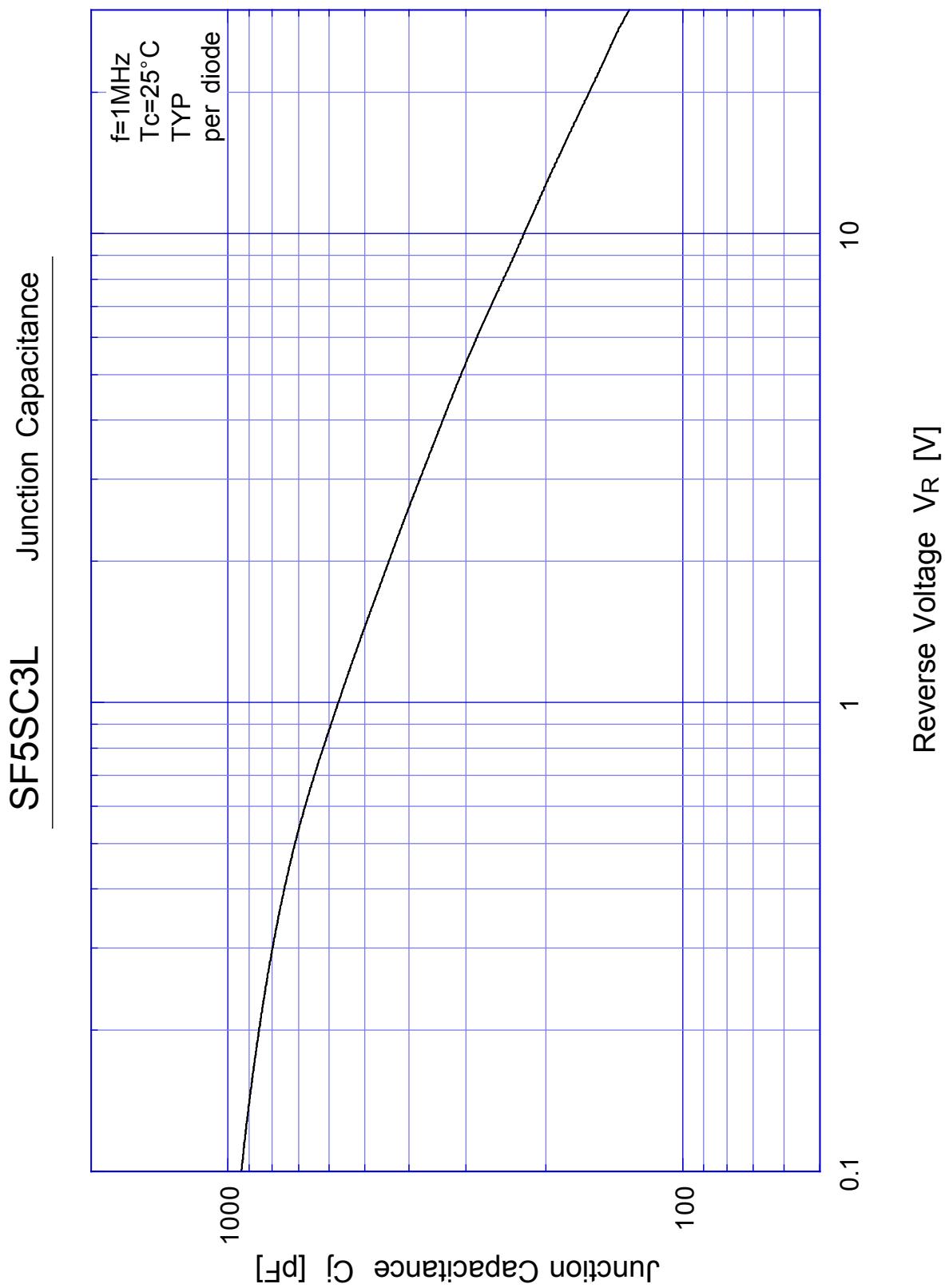
Case : FTO-220

Unit : mm



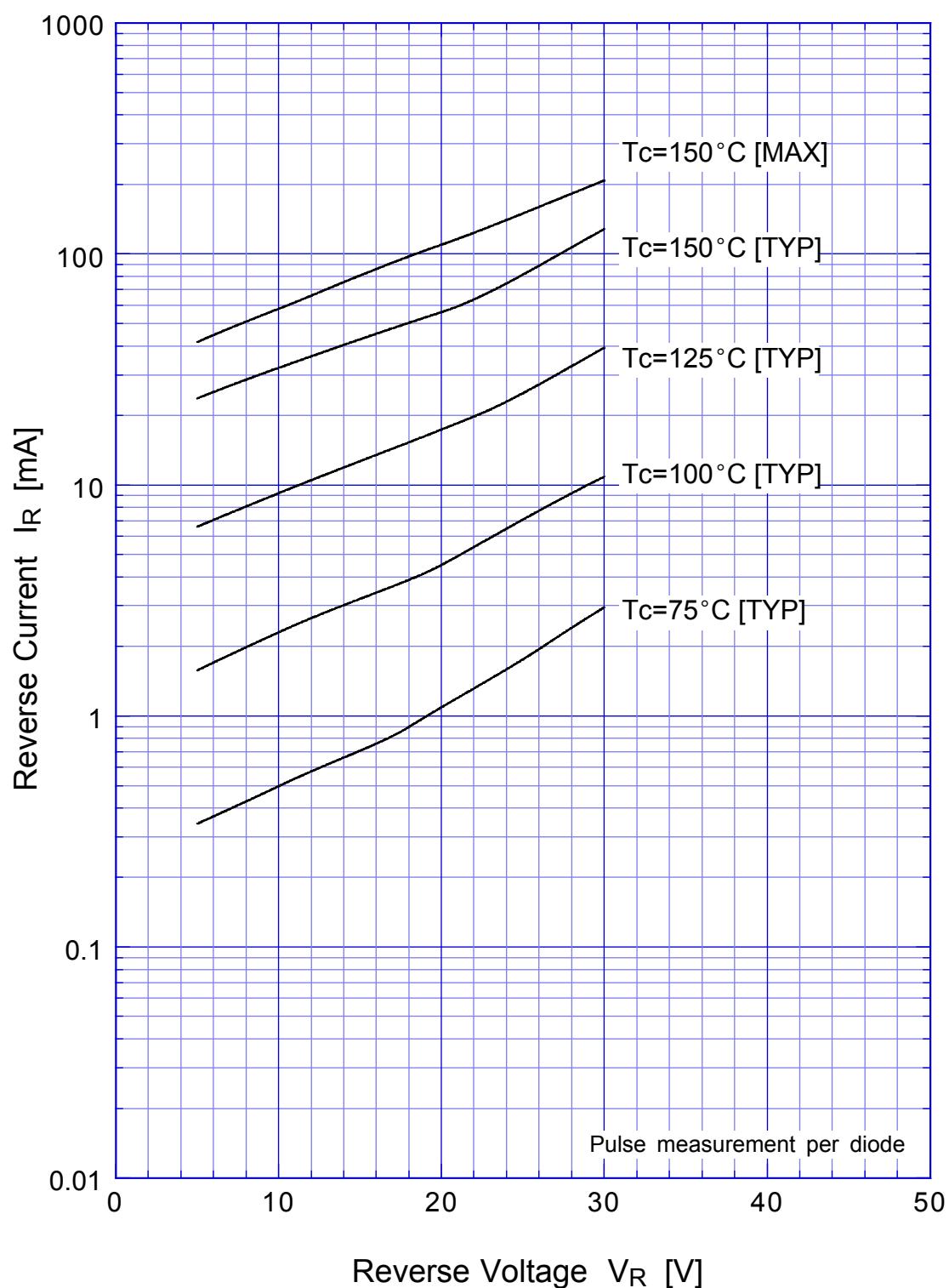
SF5SC3L Forward Voltage



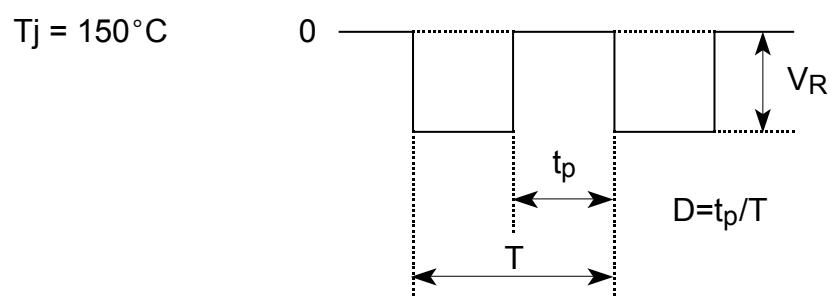
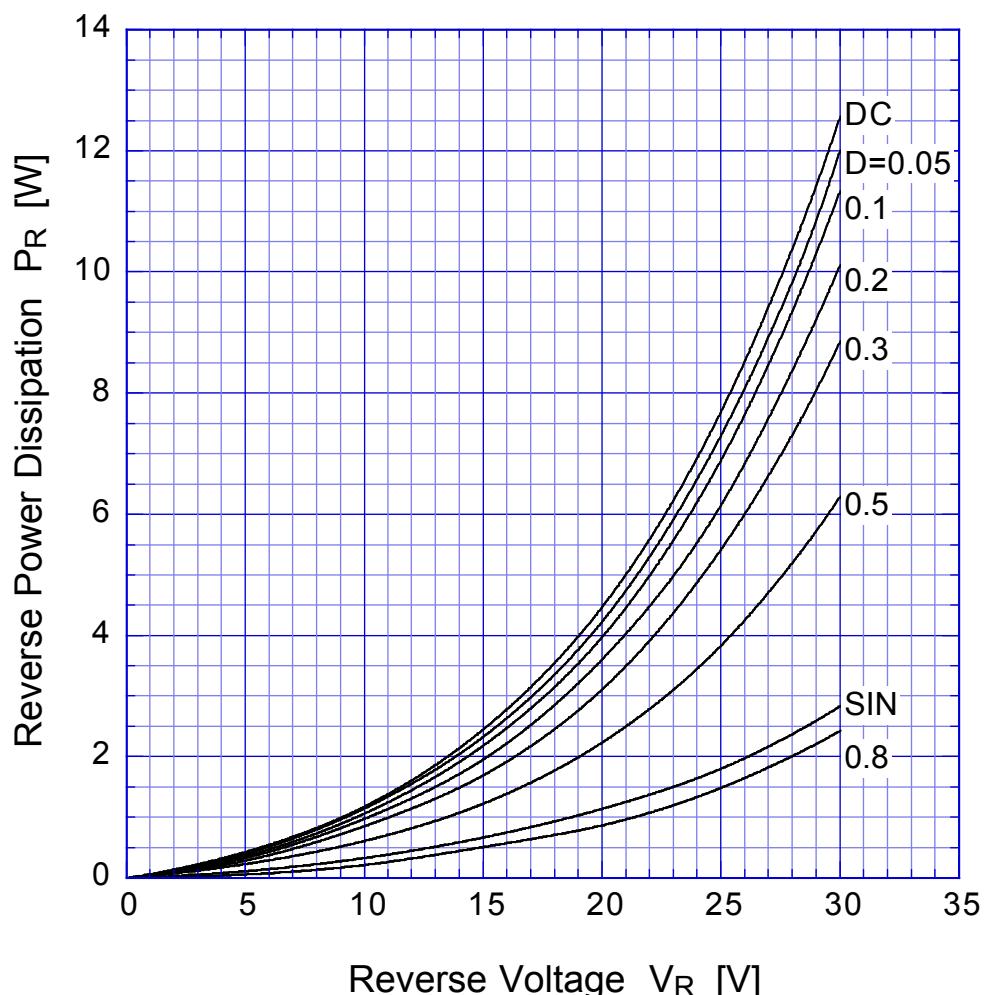


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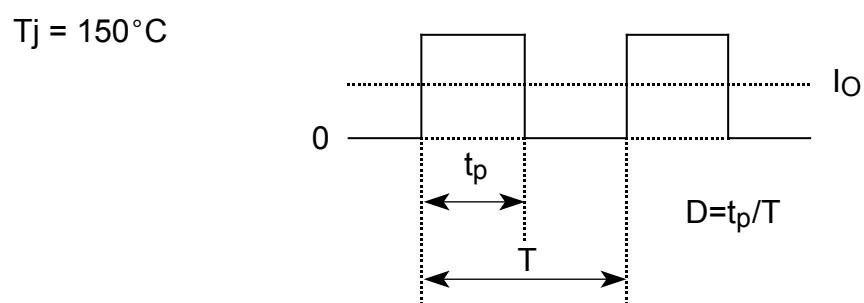
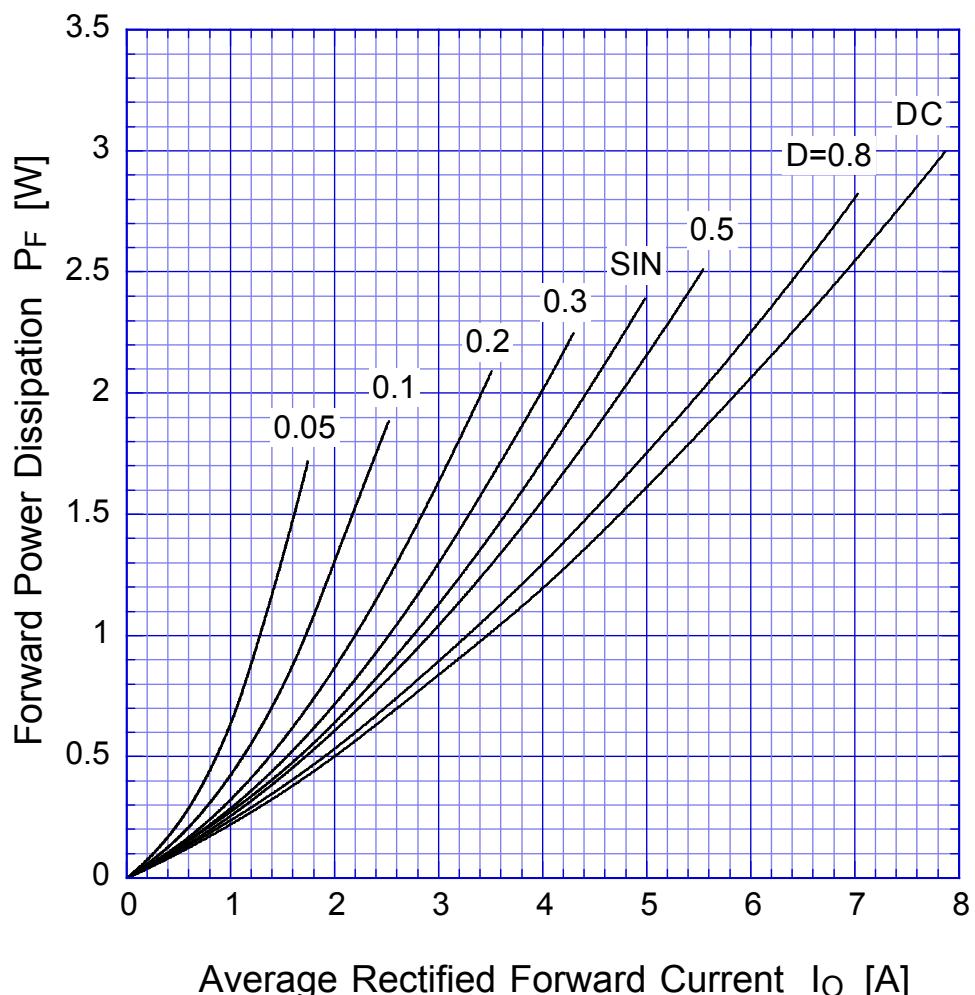
Reverse Current

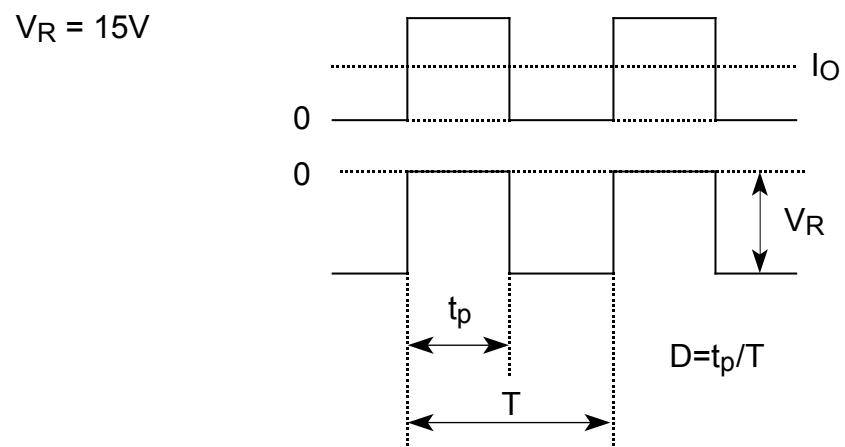
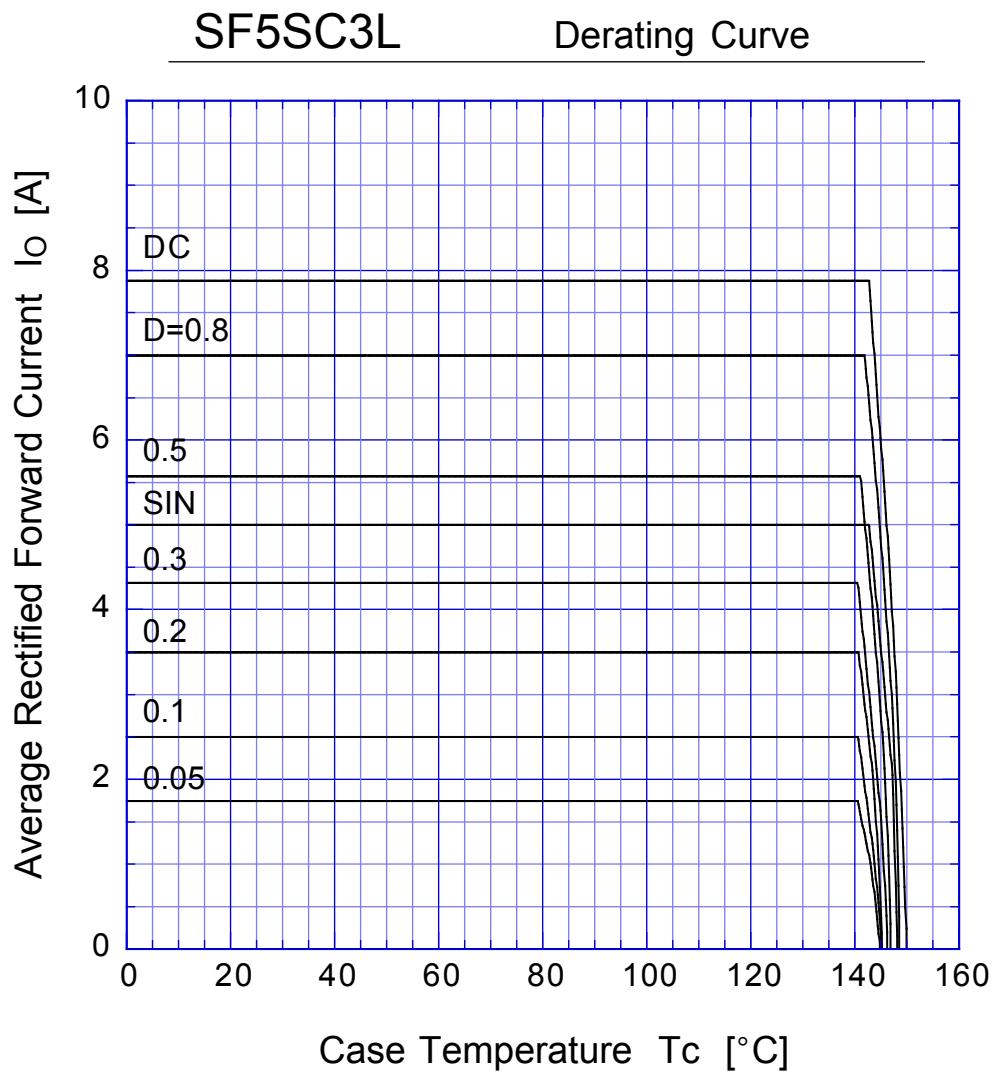


SF5SC3L Reverse Power Dissipation



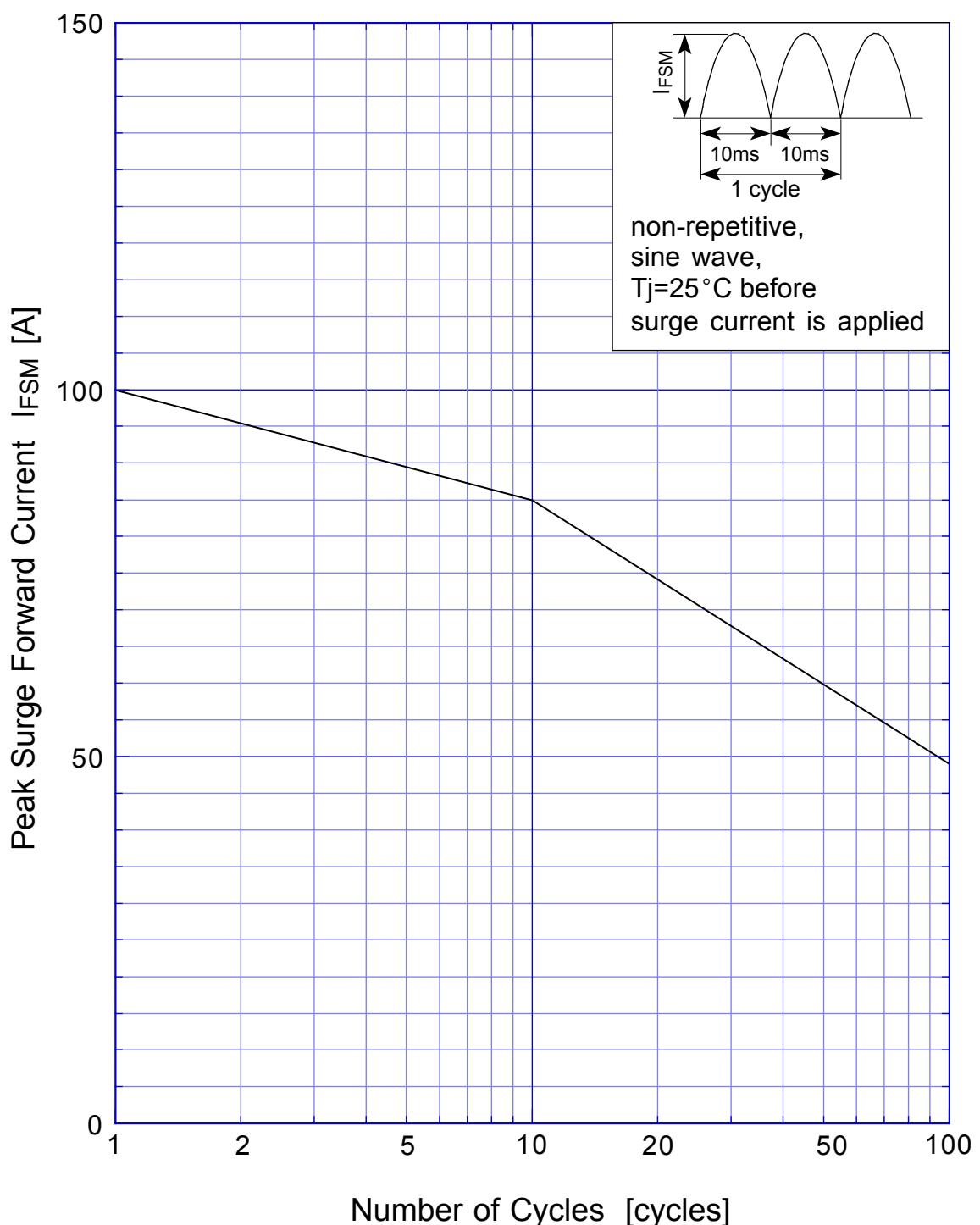
SF5SC3L Forward Power Dissipation



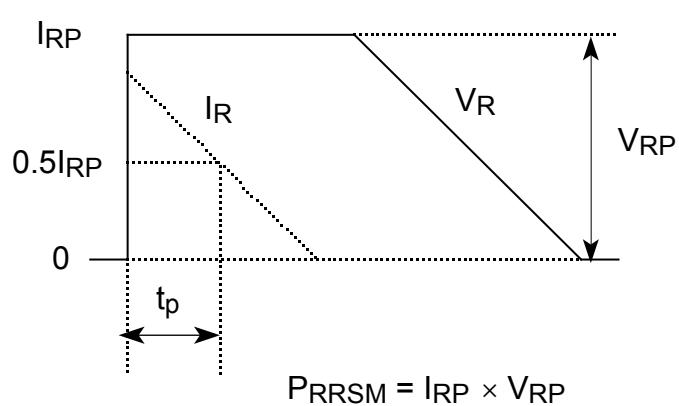
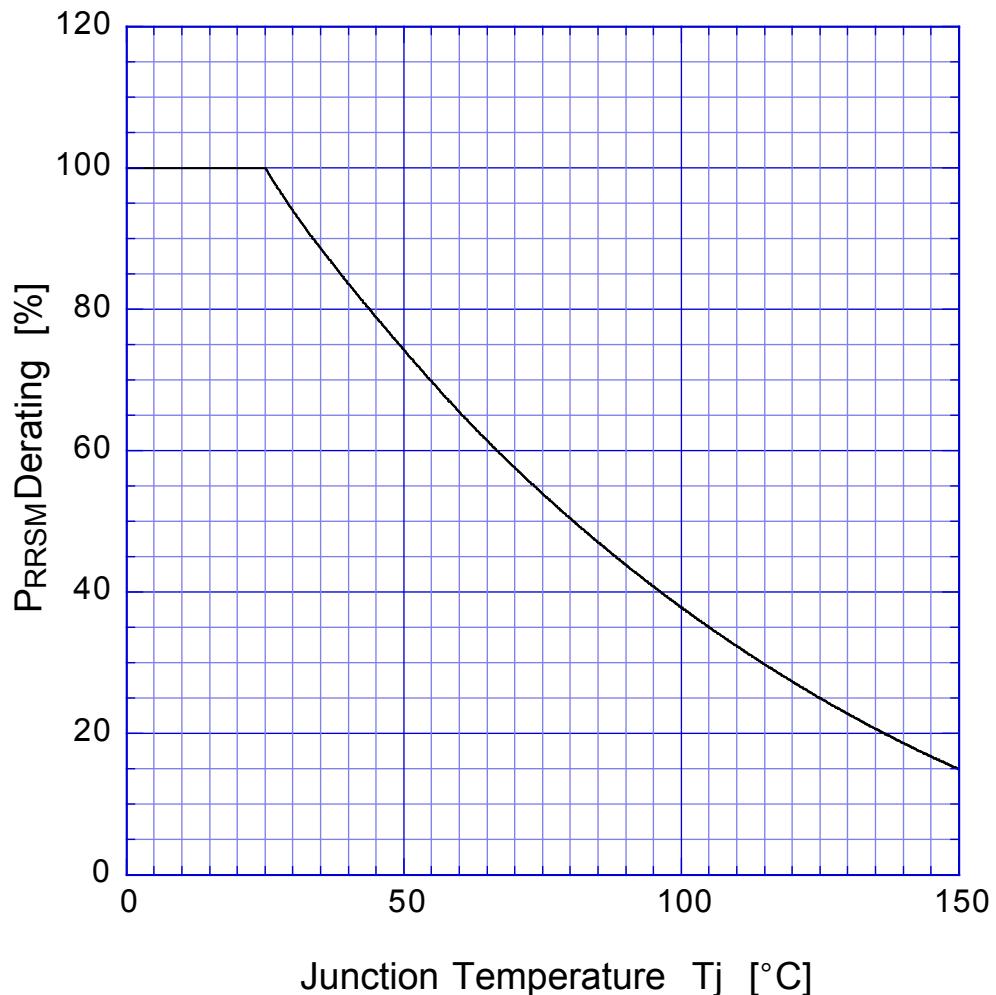


SF5SC3L

Peak Surge Forward Capability



SBD Repetitive Surge Reverse Power Derating Curve



SBD Repetitive Surge Reverse Power Capability

