

SHINDENGEN

Schottky Rectifiers (SBD)

Dual

SF30SC6

60V 30A

FEATURES

T_j150P_{RRSM} avalanche guaranteed

Fully Isolated Molding

Dielectric strength 2kV guaranteed

APPLICATION

Switching power supply

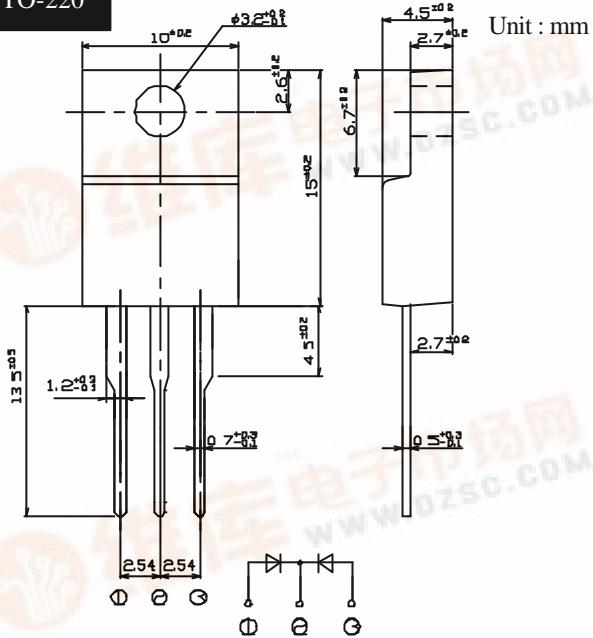
DC/DC converter

Home Appliances, Office Equipment

Telecommunication

OUTLINE DIMENSIONS

Case : FTO-220



RATINGS

Absolute Maximum Ratings (If not specified T_c=25)

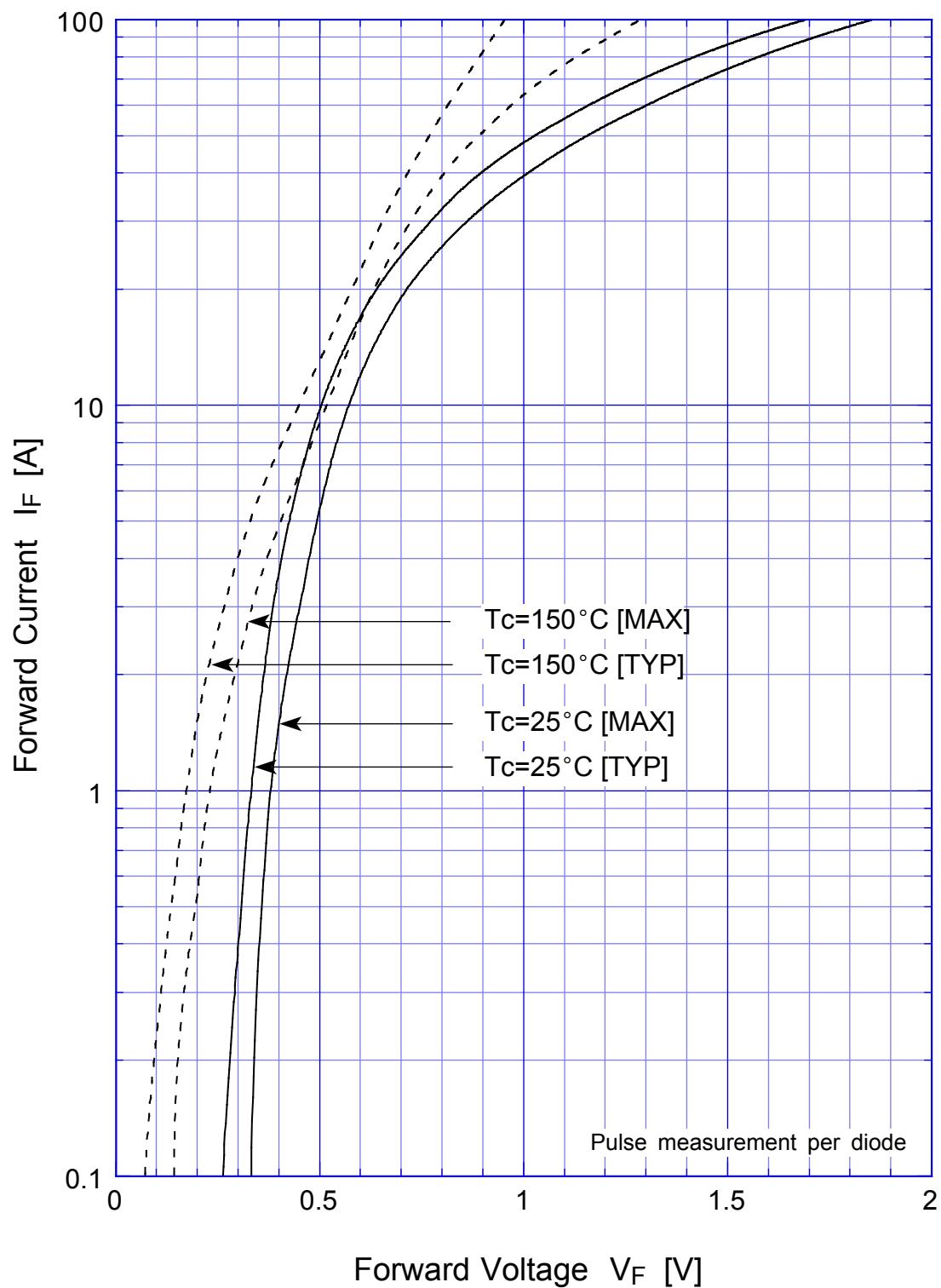
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	T _{stg}		-55 ~ 150	
Operating Junction Temperature	T _j		150	
Maximum Reverse Voltage	V _{RM}		60	V
Repetitive Peak Surge Reverse Voltage	V _{RRSM}	Pulse width 0.5ms, duty 1/40	65	V
Average Rectified Forward Current	I _o	50Hz sine wave, R-load, Rating for each diode I _o /2, T _c =107	30	A
Peak Surge Forward Current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, T _j =25	250	A
Repetitive Peak Surge Reverse Power	P _{RRSM}	Pulse width 10 μs, Rating of per diode, T _j =25	660	W
Dielectric Strength	V _{diss}	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)

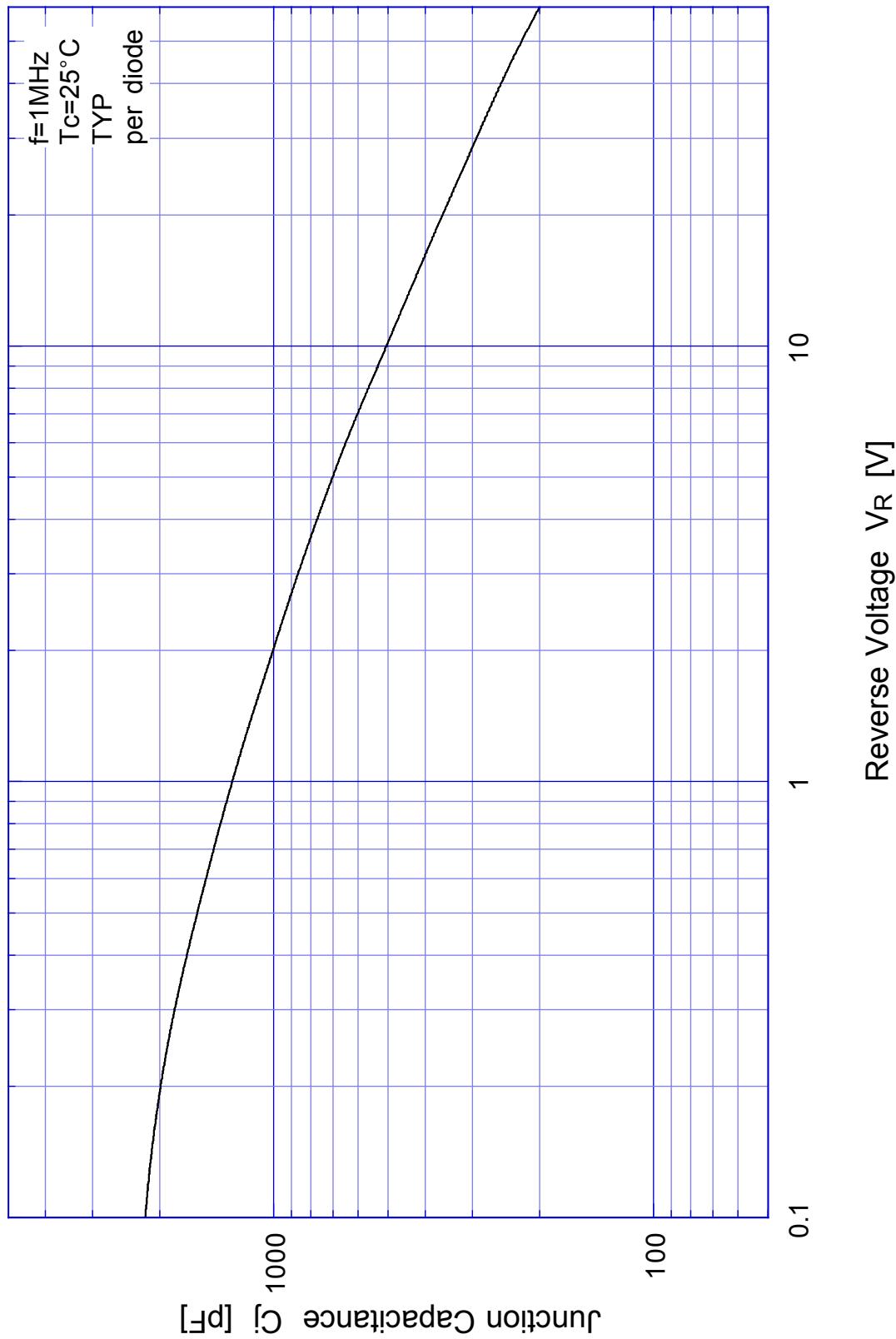
Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V _F	I _F =15A, Pulse measurement, Rating of per diode	Max.0.63	V
Reverse Current	I _R	V _R =V _{RM} , Pulse measurement, Rating of per diode	Max.10	mA
Junction Capacitance	C _j	f=1MHz, V _R =10V, Rating of per diode	Typ.500	pF
Thermal Resistance	j _C	junction to case	Max.1.6	/W

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Forward Voltage

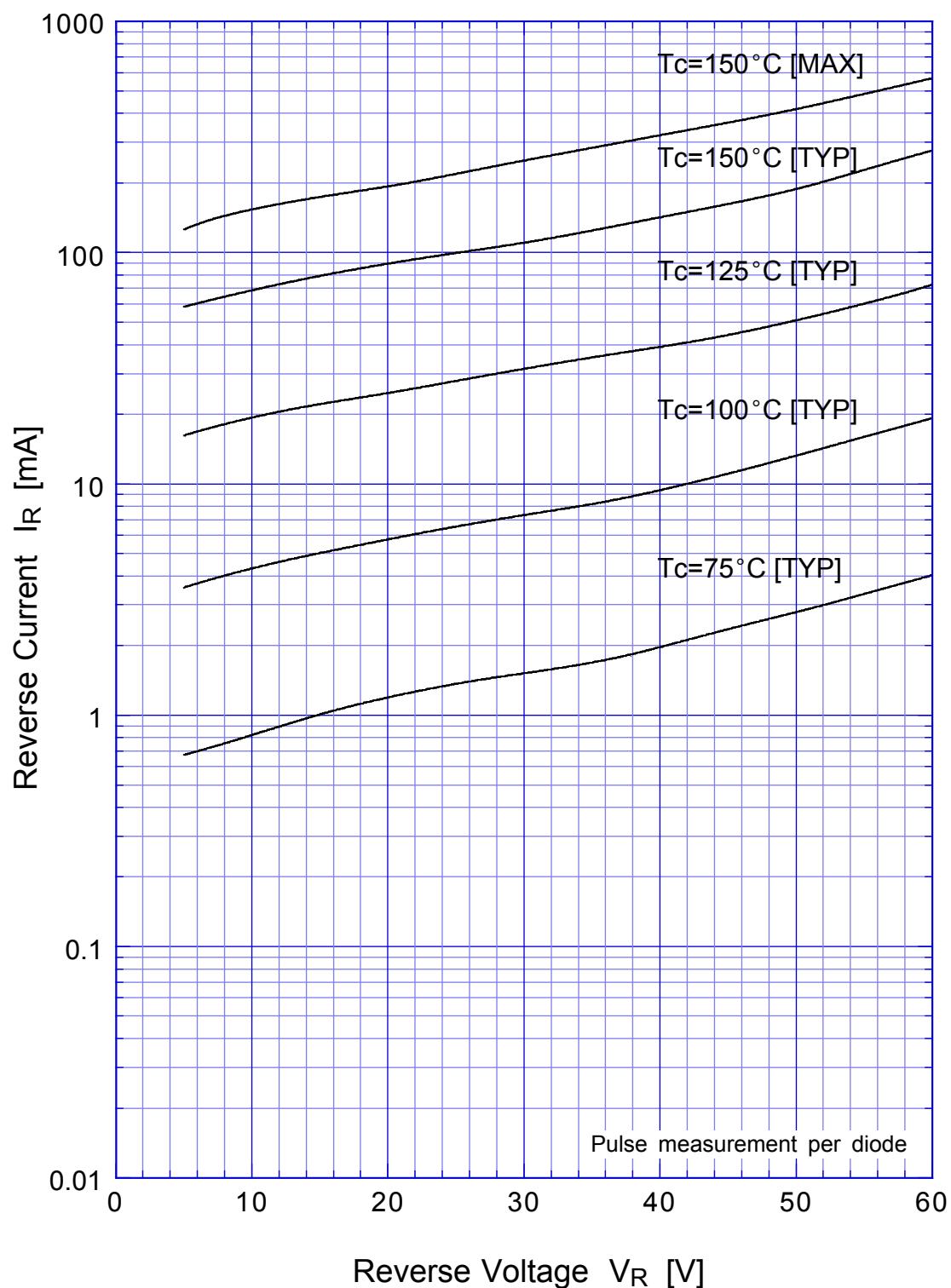


SF30SC6 Junction Capacitance

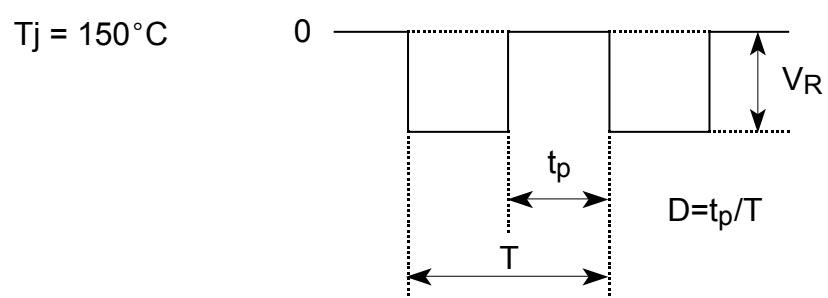
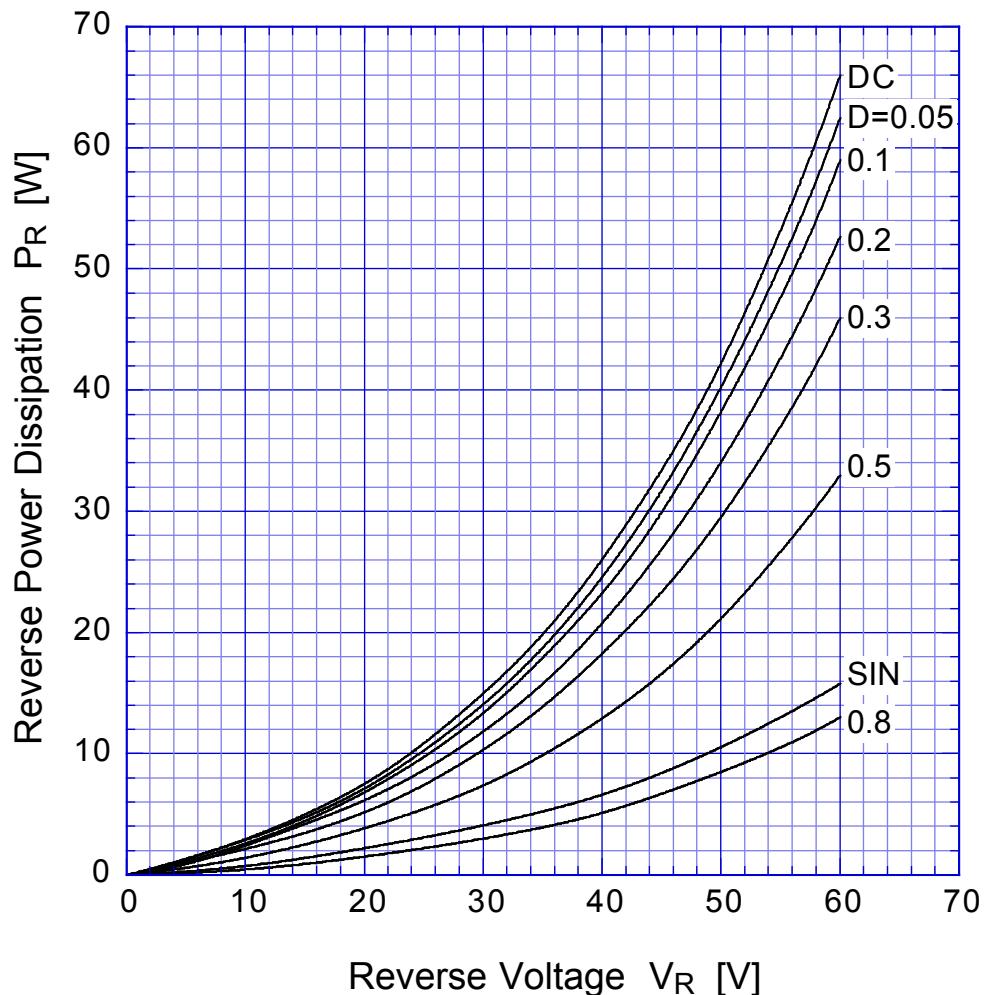


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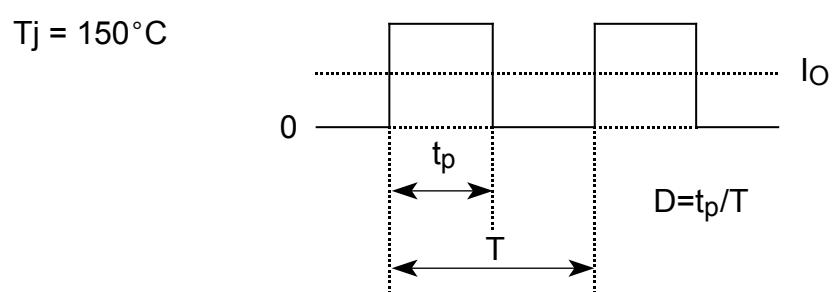
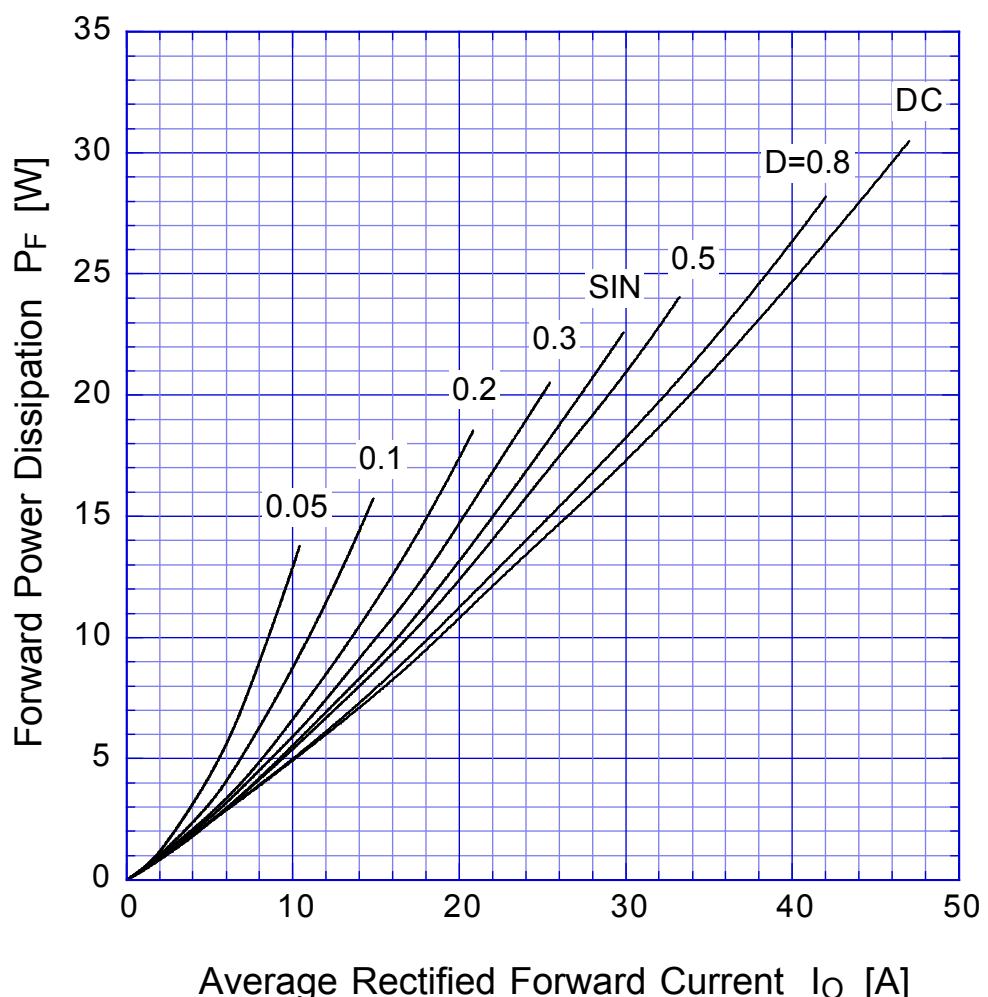
Reverse Current

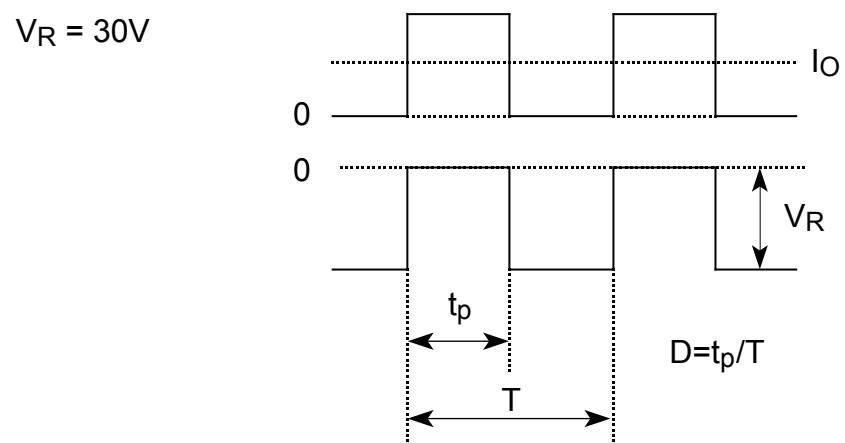
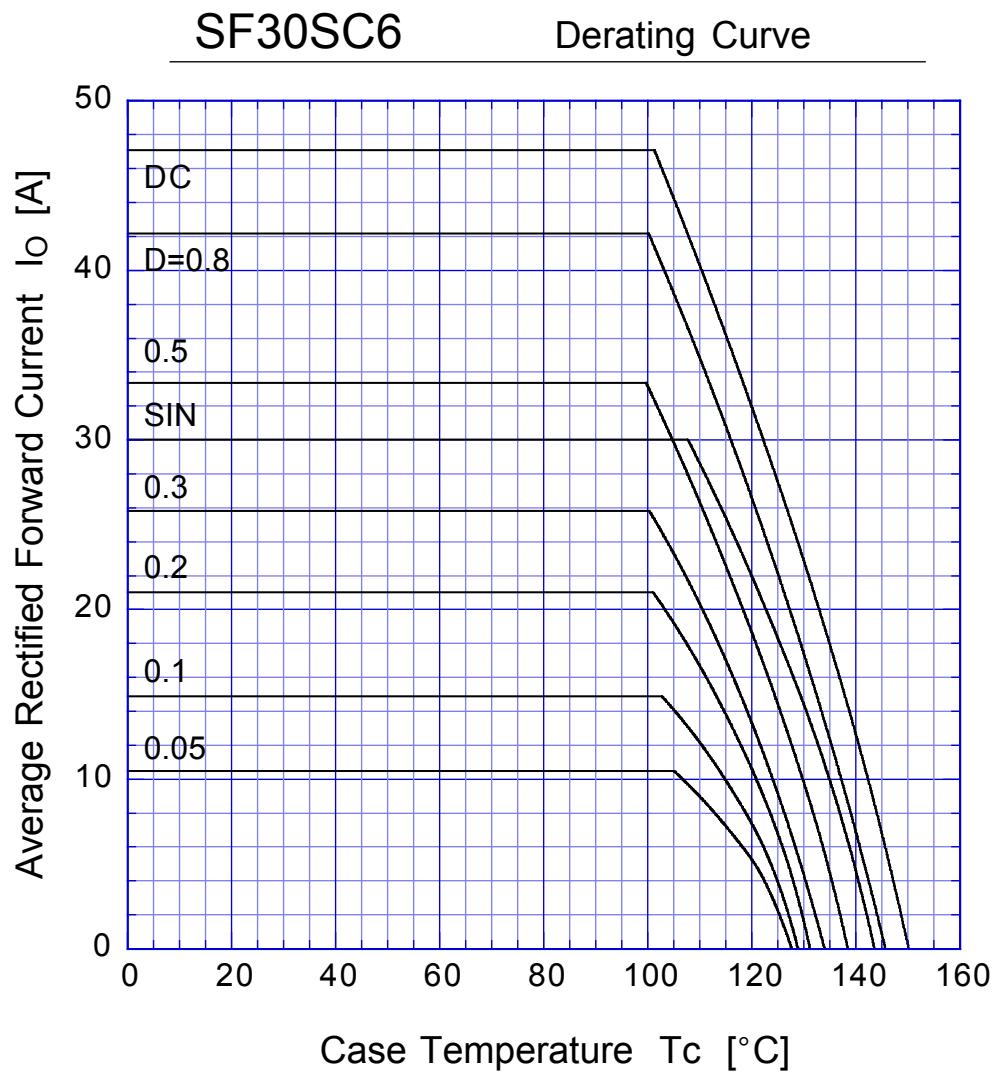


SF30SC6 Reverse Power Dissipation



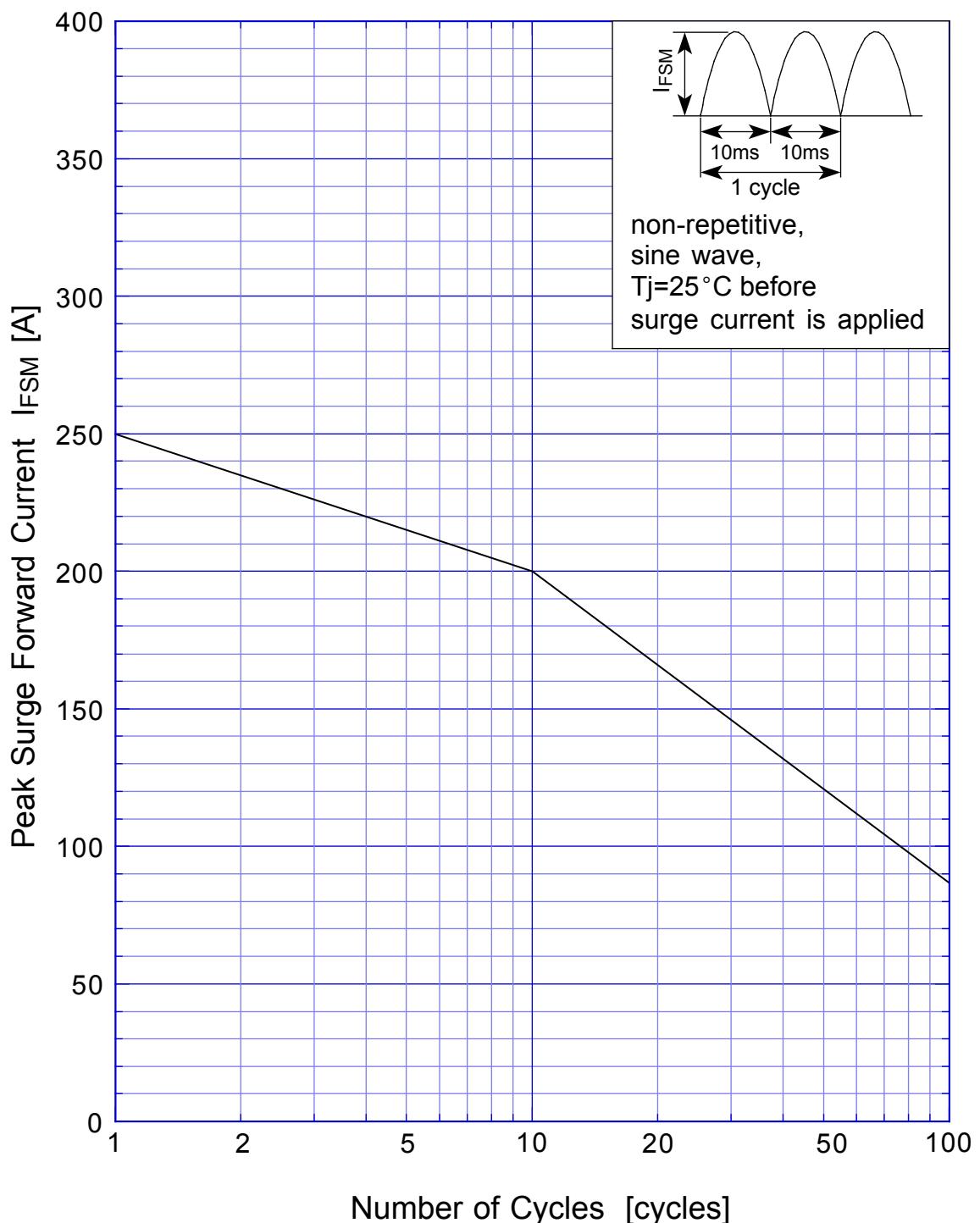
SF30SC6 Forward Power Dissipation



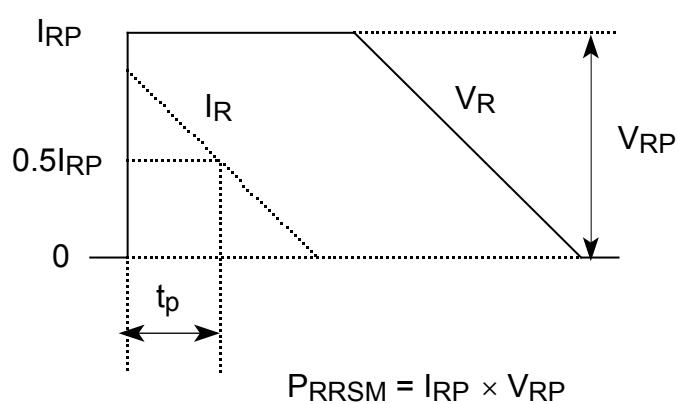
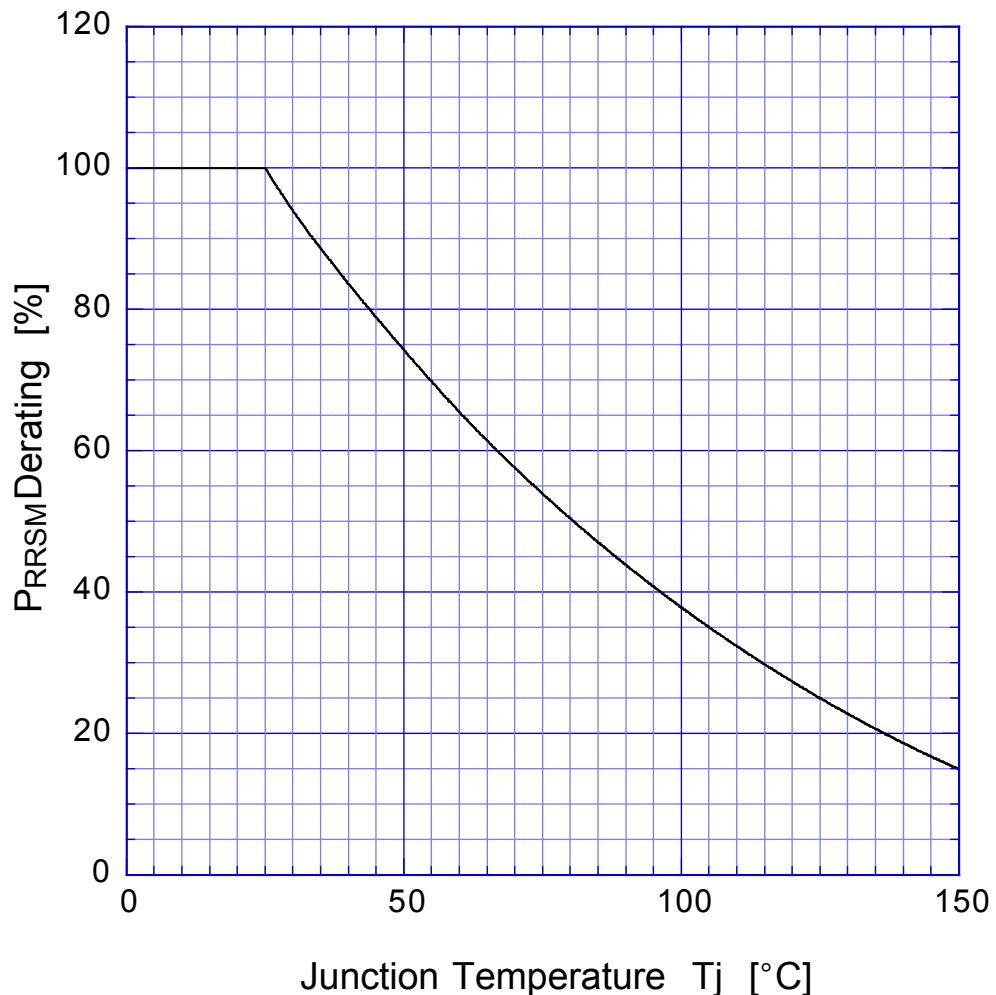


SF30SC6

Peak Surge Forward Capability



SBD Repetitive Surge Reverse Power Derating Curve



SBD Repetitive Surge Reverse Power Capability

