

SHINDENGEN

Schottky Rectifiers (SBD)

Dual

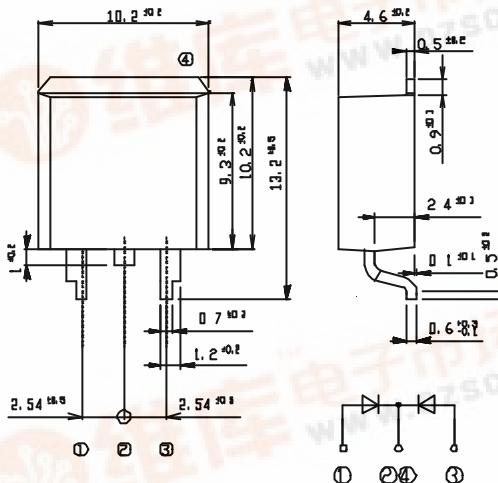
DF10SC6

60V 10A

OUTLINE DIMENSIONS

Case : STO-220

Unit : mm



RATINGS

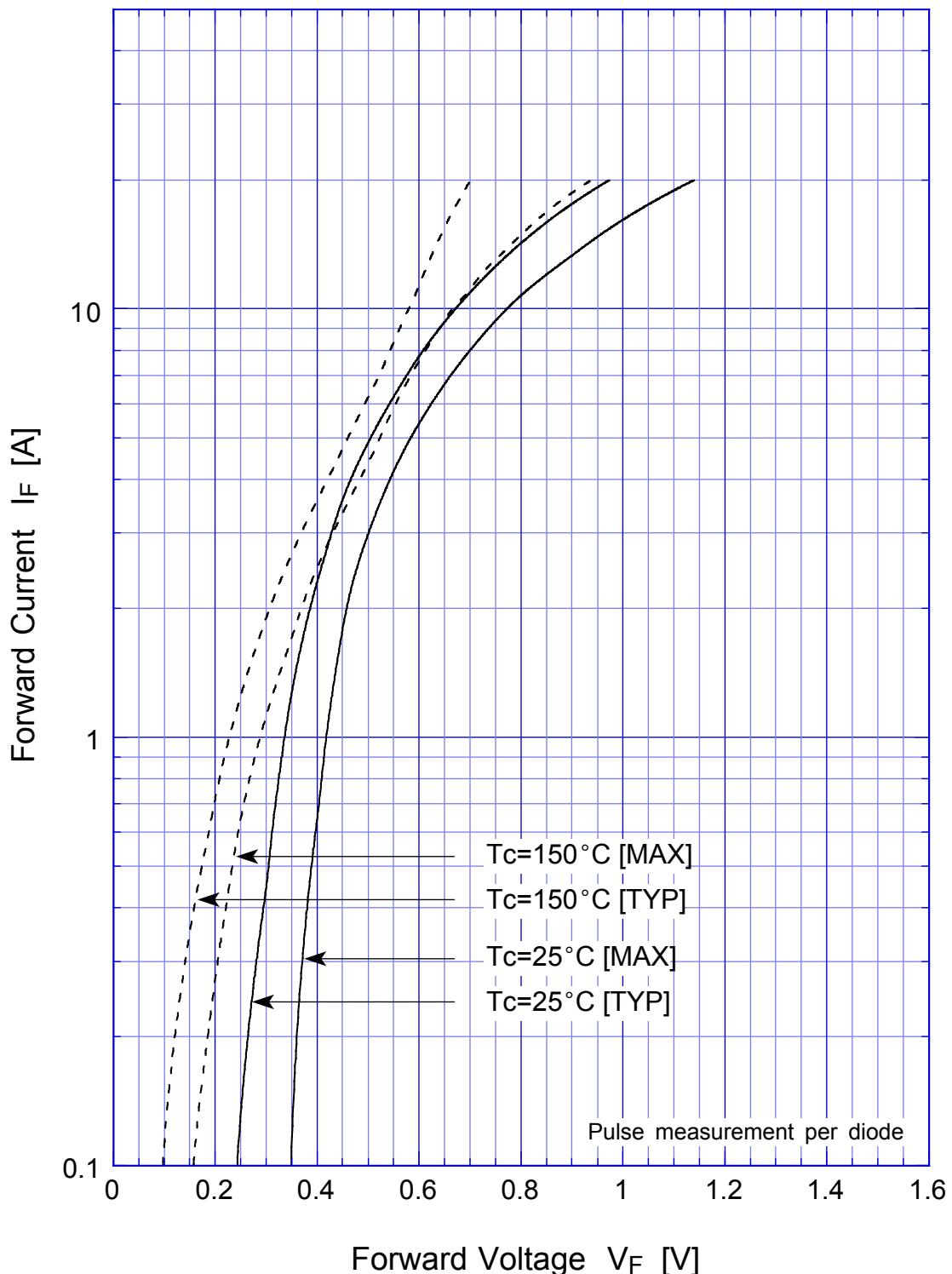
Absolute Maximum Ratings (If not specified $T_c=25^\circ C$)

Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	T_{stg}		-55 ~ 150	
Operating Junction Temperature	T_j		150	
Peak 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 $I_o/2$, $T_c=132^\circ C$	10	A
Peak Surge Forward Current	I_{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, $T_j=25^\circ C$	150	A
Repetitive Peak Surge Reverse Power	P_{RRSM}	Pulse width 10 μs , Rating of per diode, $T_j=25^\circ C$	330	W

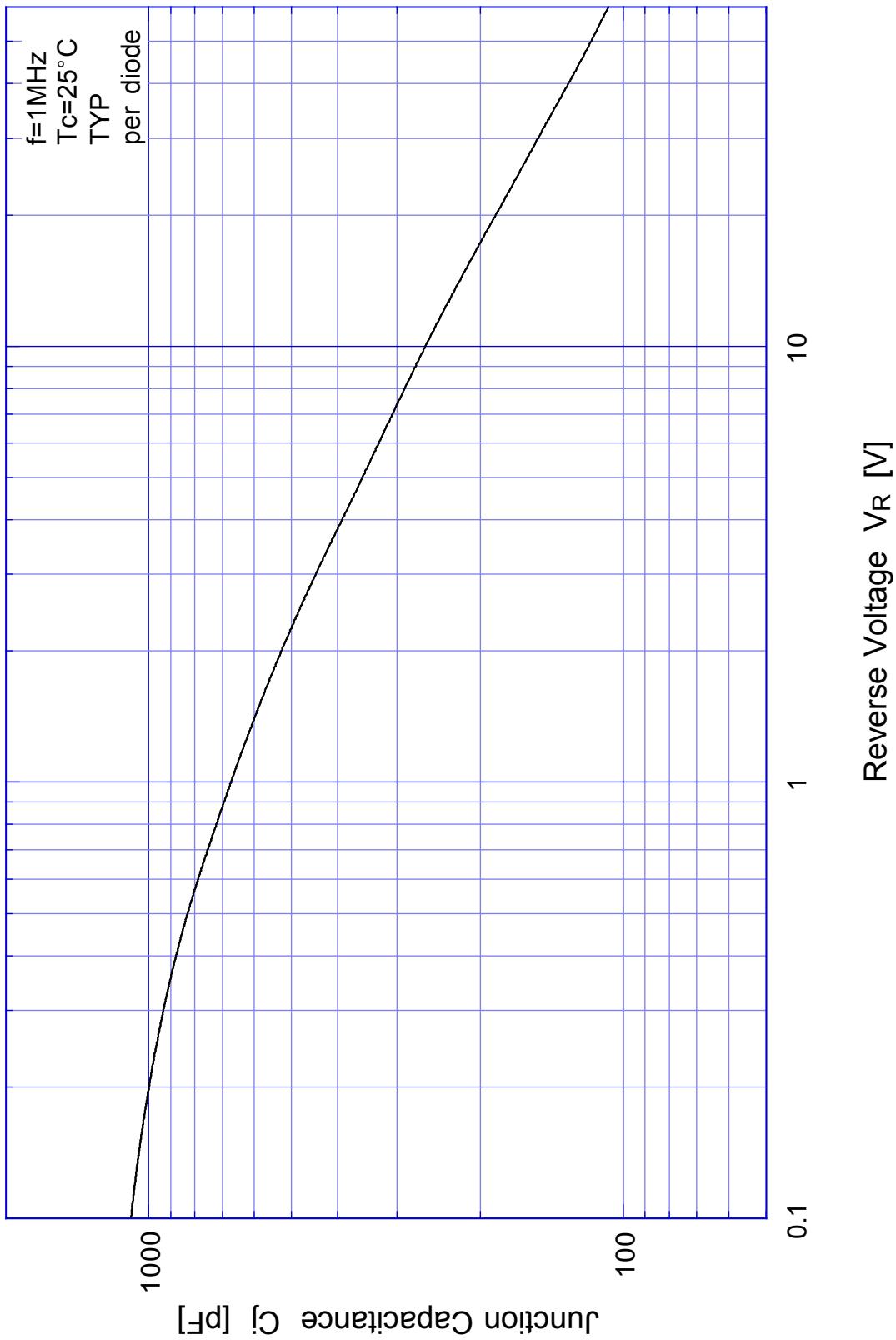
Electrical Characteristics (If not specified $T_c=25^\circ C$)

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V_F	$I_F=5A$, Pulse measurement, Rating of per diode	Max.0.58	V
Reverse Current	I_R	$V_R=V_{RM}$, Pulse measurement, Rating of per diode	Max.4.5	mA
Junction Capacitance	C_j	$f=1MHz$, $V_R=10V$, Rating of per diode	Typ.260	pF
Thermal Resistance	j_c	junction to case	Max.2.0	/W

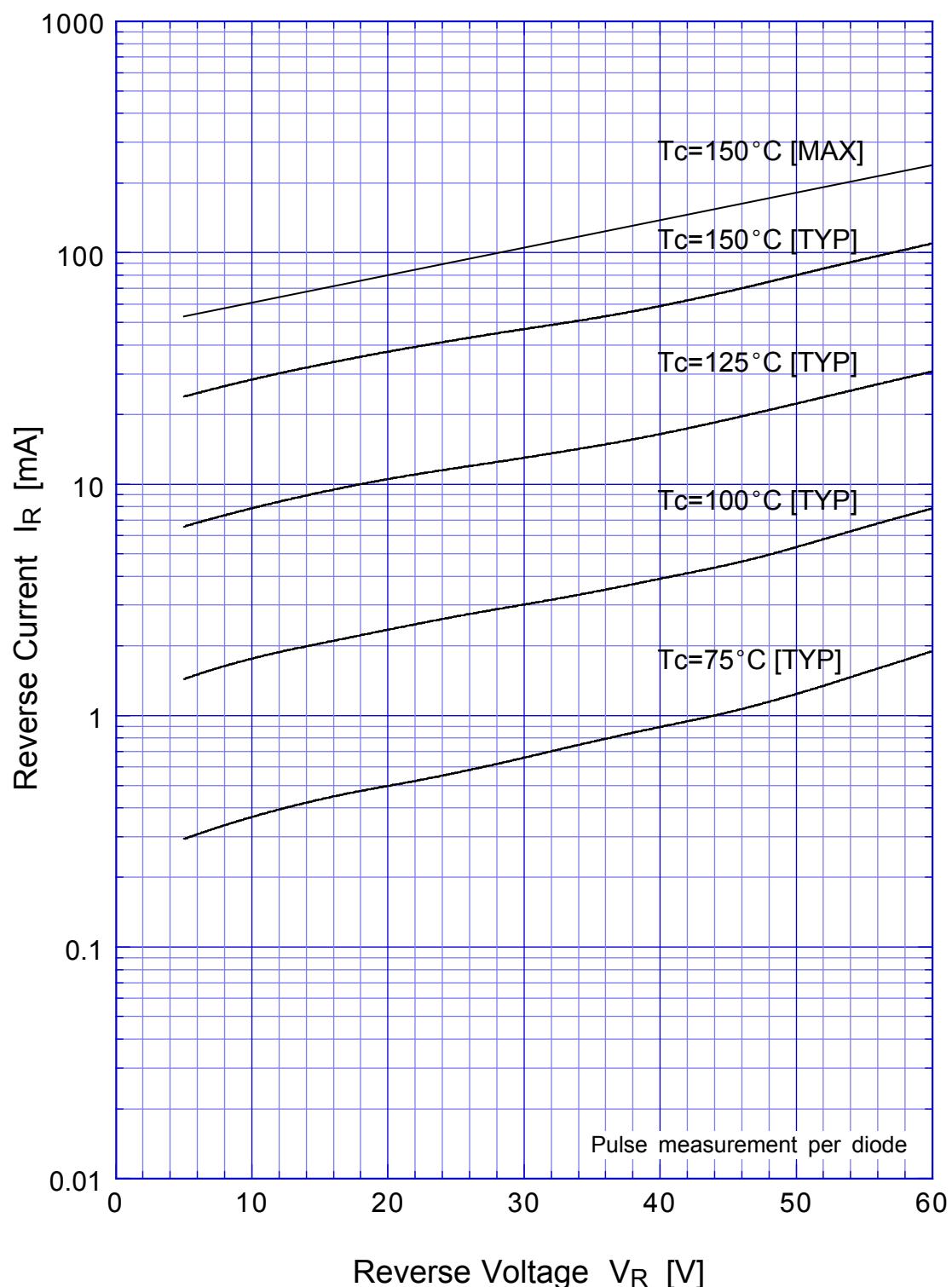
DF10SC6 Forward Voltage



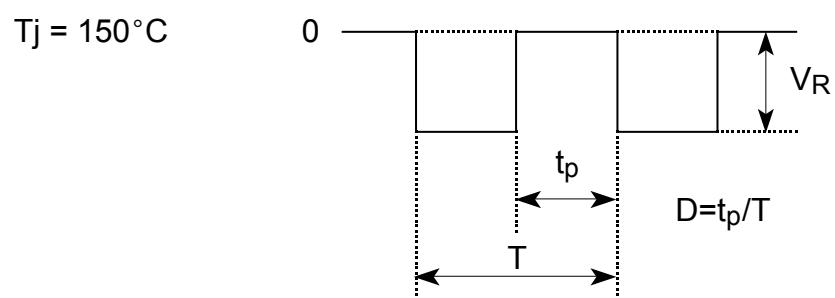
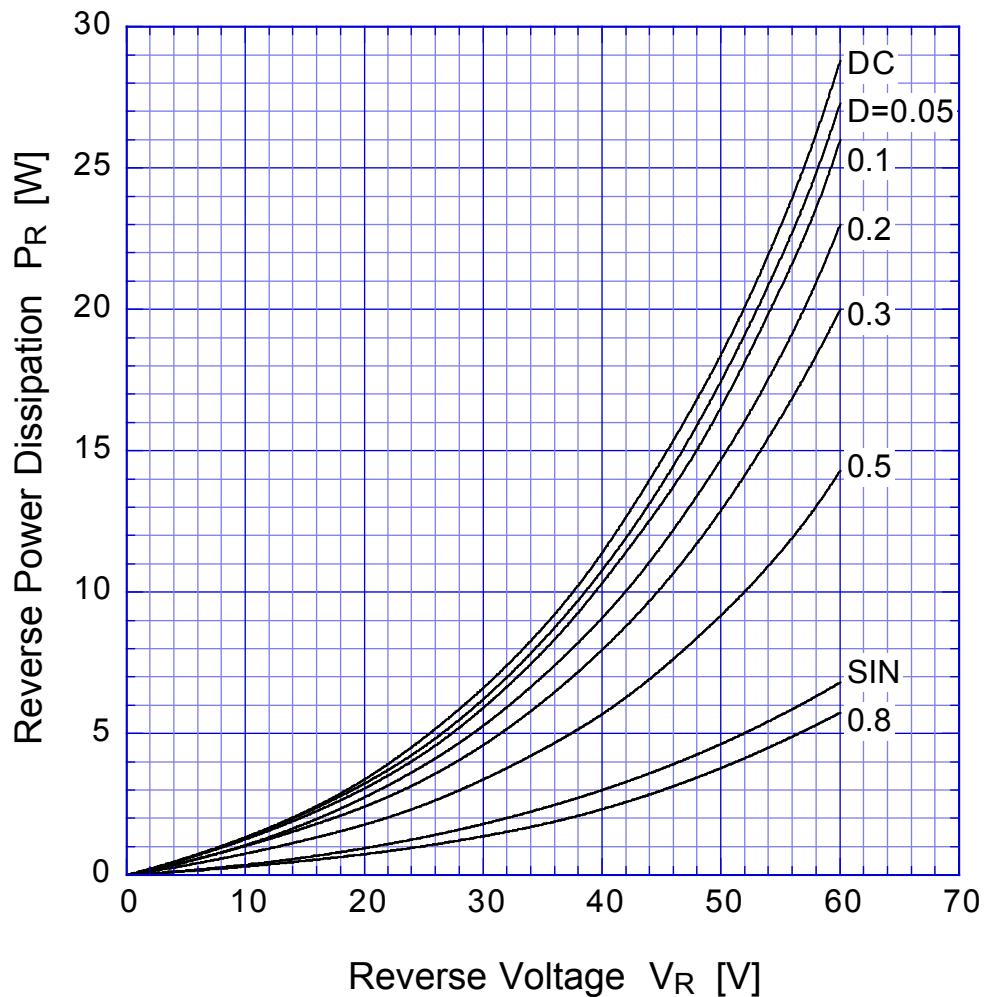
DF10SC6 Junction Capacitance



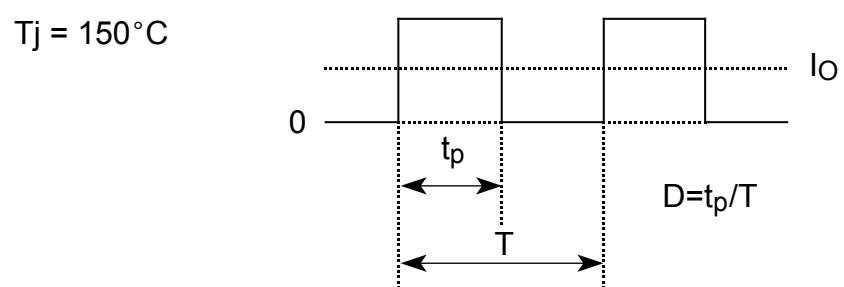
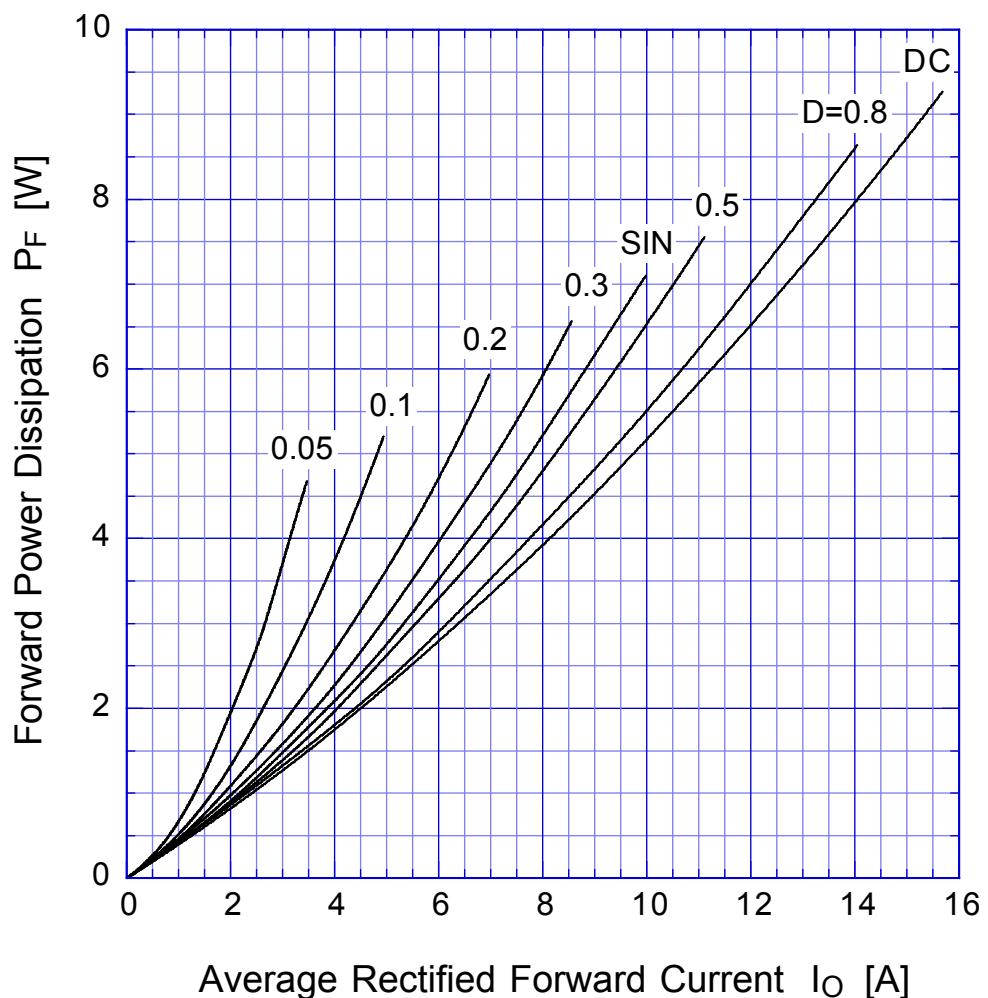
DF10SC6 Reverse Current

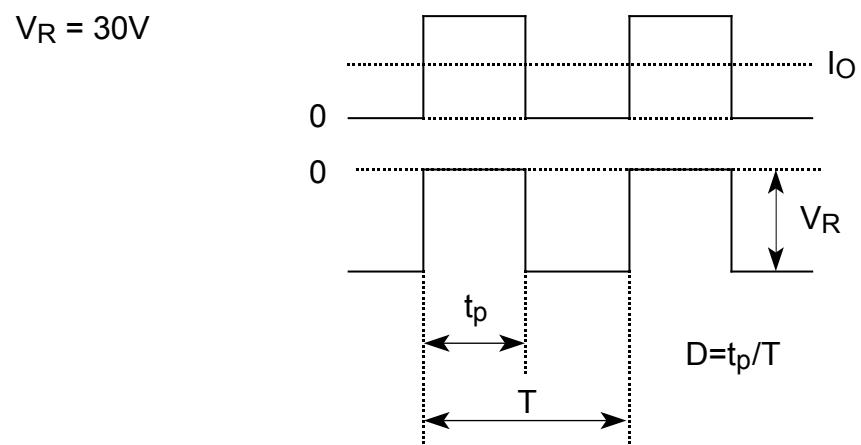
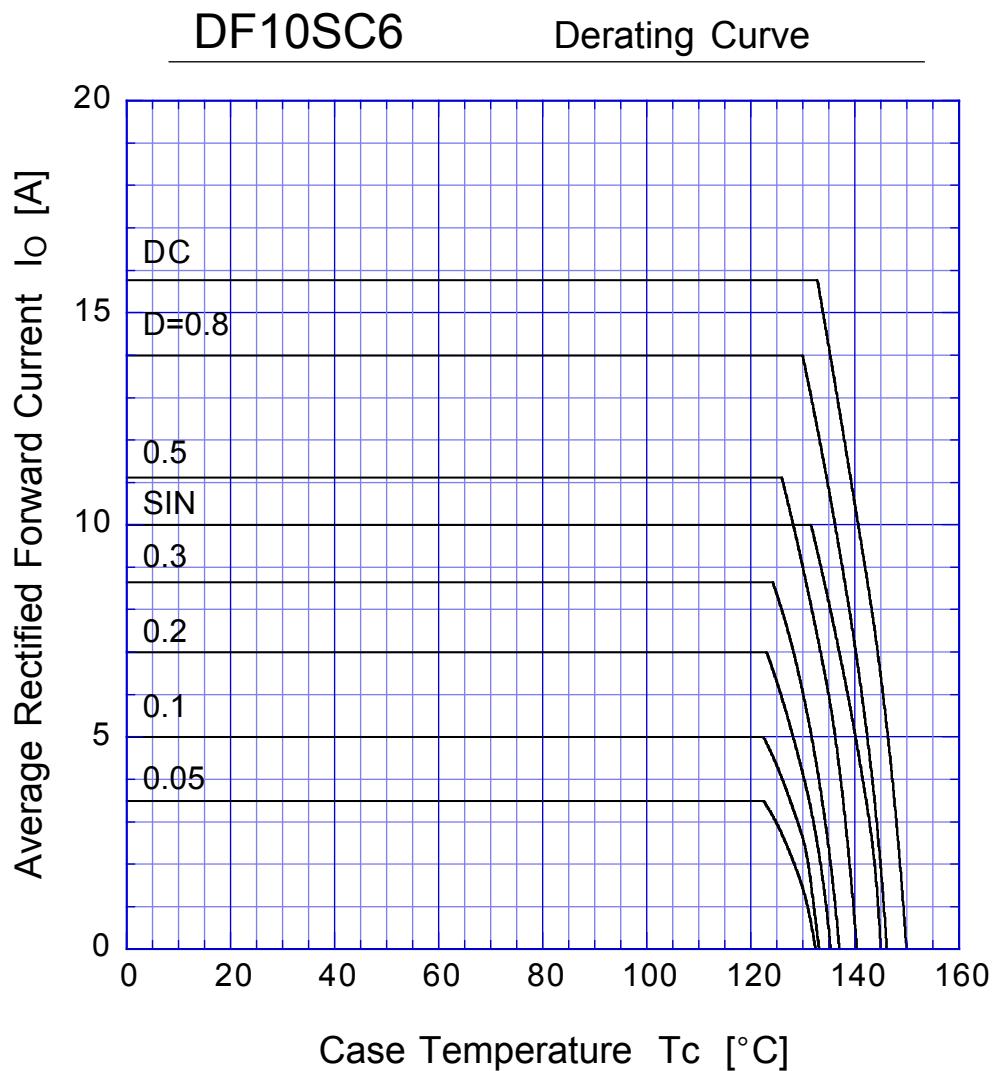


DF10SC6 Reverse Power Dissipation



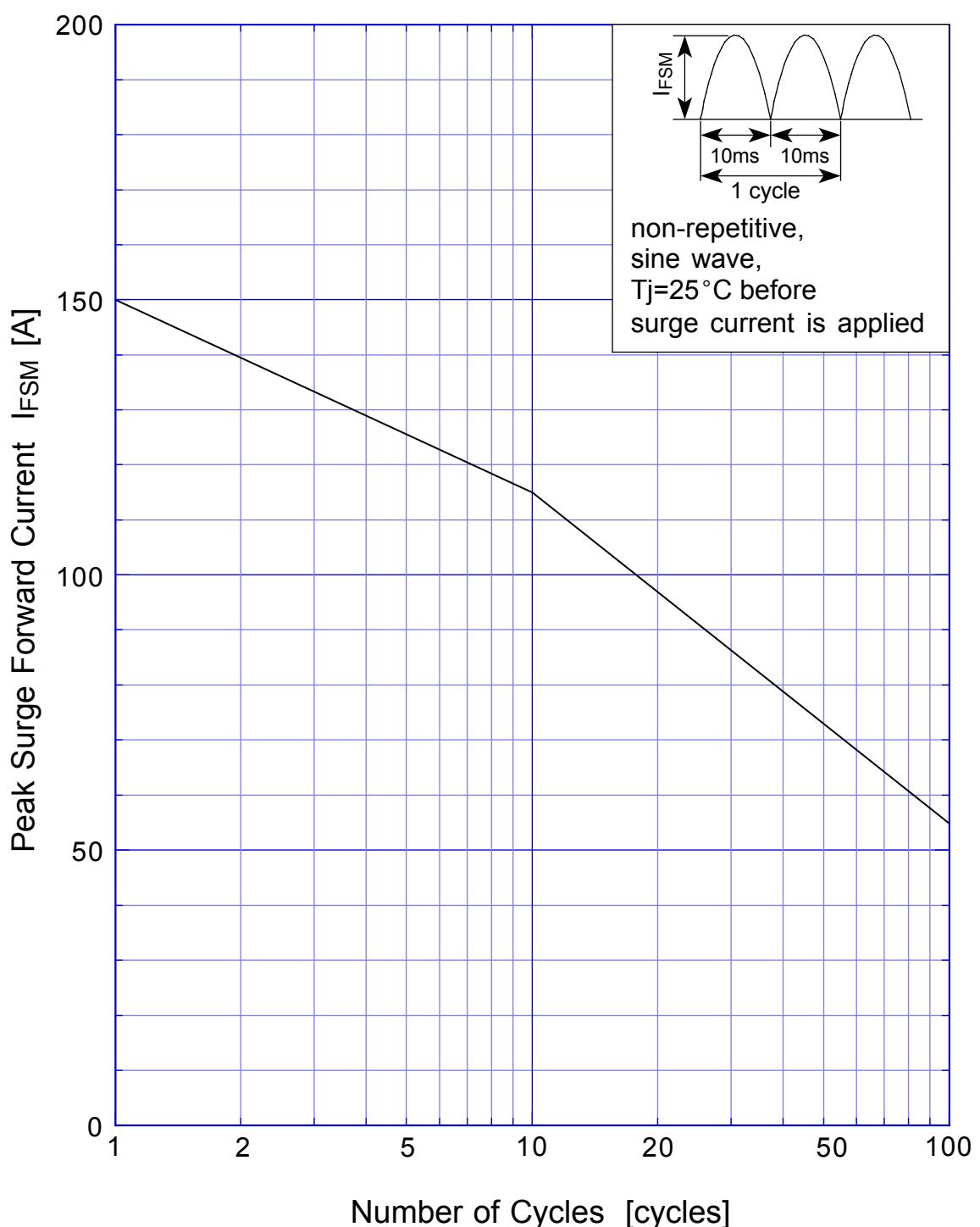
DF10SC6 Forward Power Dissipation



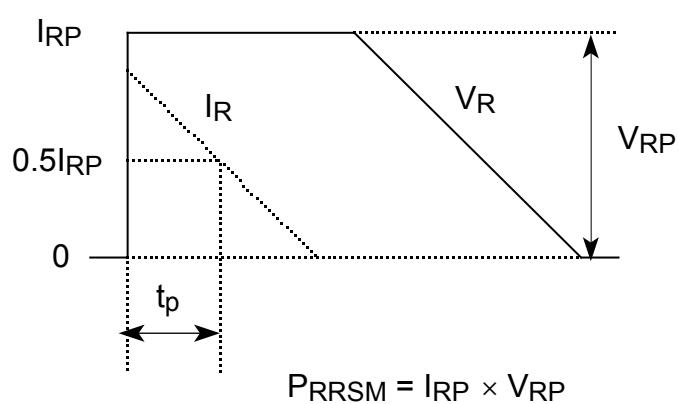
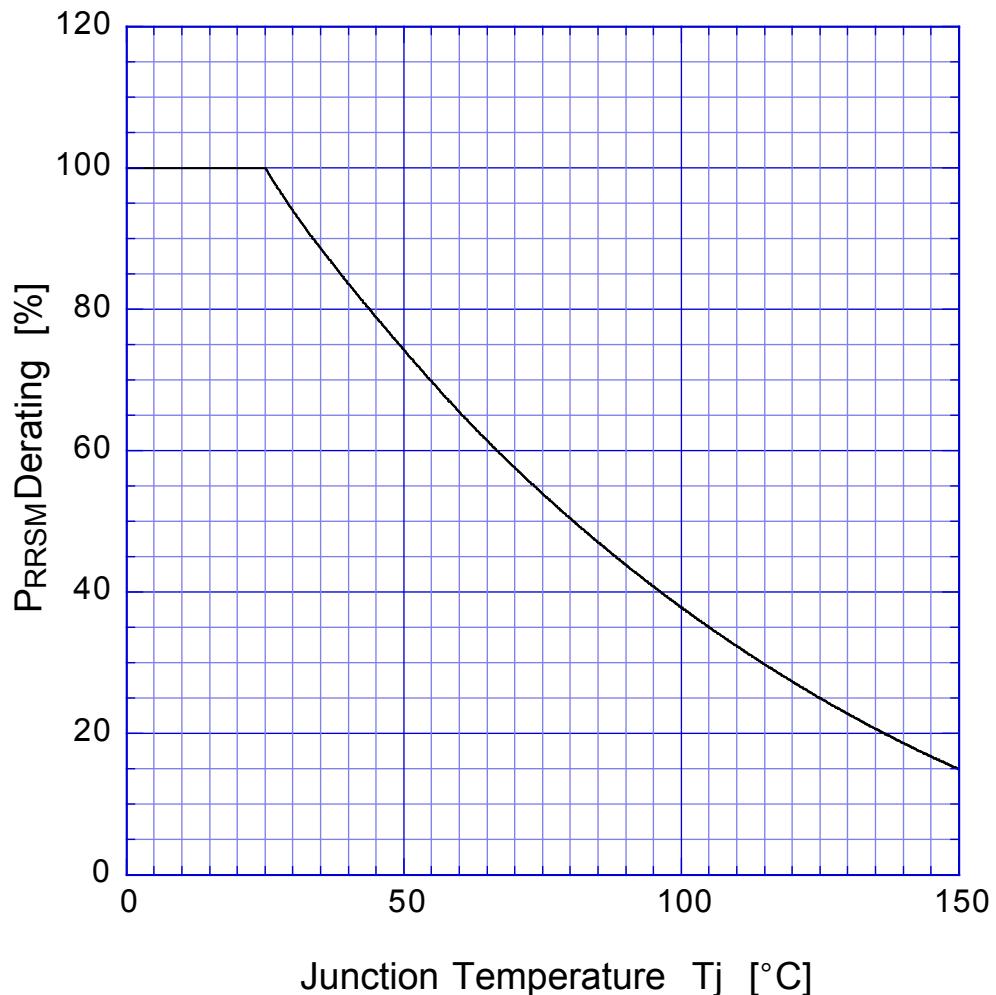


DF10SC6

Peak Surge Forward Capability



SBD Repetitive Surge Reverse Power Derating Curve



SBD Repetitive Surge Reverse Power Capability

