

SHINDENGEN

Schottky Rectifiers (SBD)

Dual

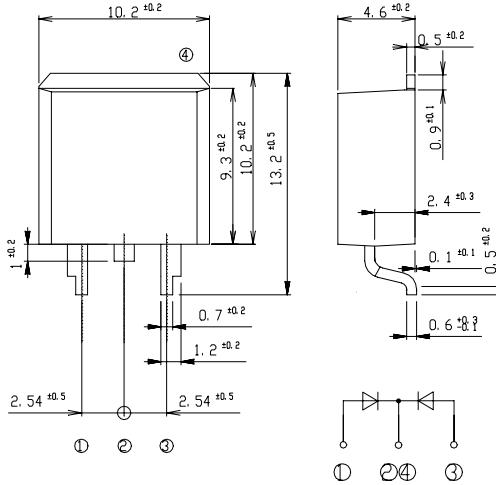
DF10SC6

60V 10A

OUTLINE DIMENSIONS

Case : STO-220

Unit : mm



RATINGS

● Absolute Maximum Ratings (If not specified Tc=25°C)

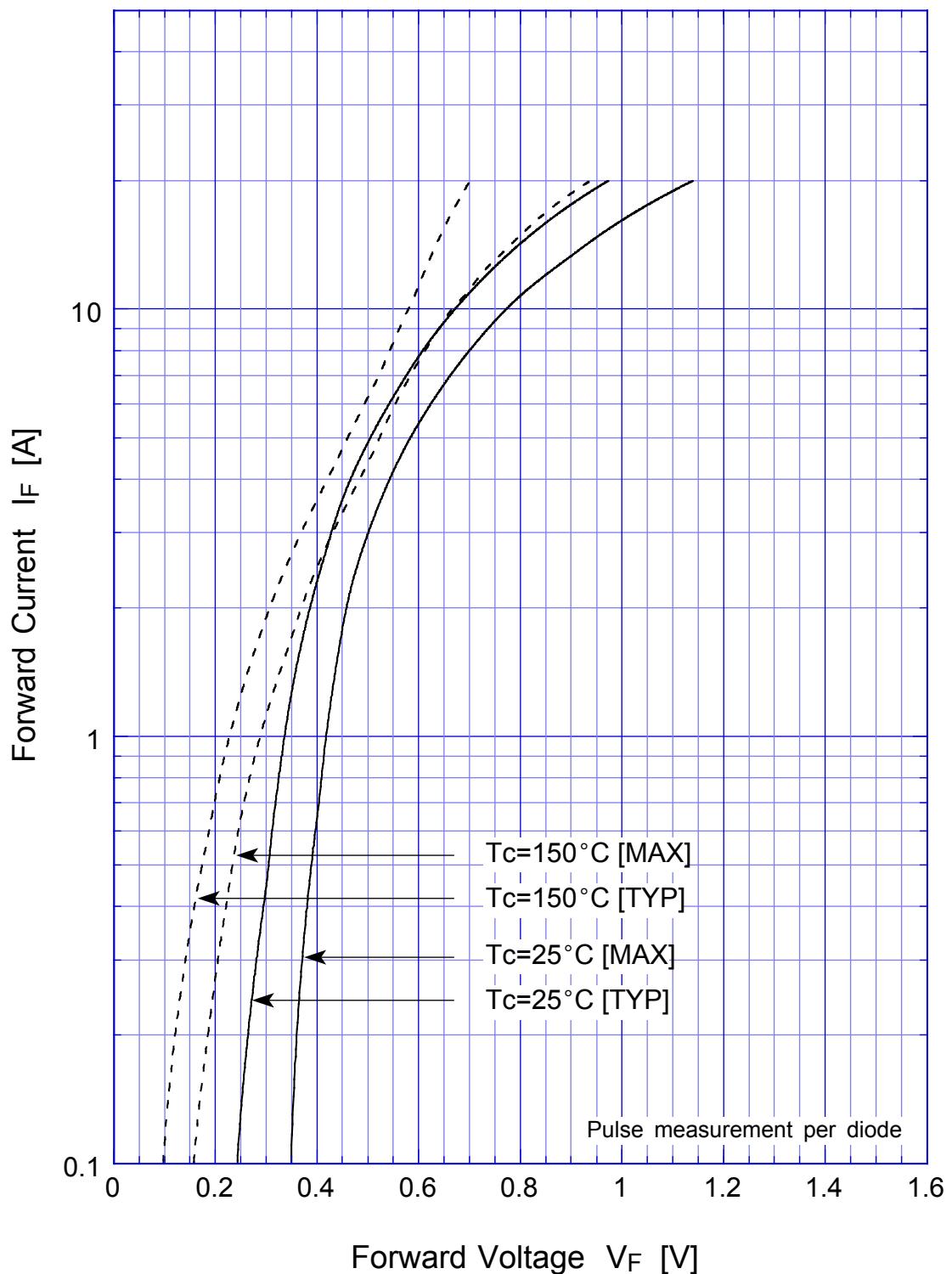
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	T _{stg}		-55~150	°C
Operating Junction Temperature	T _j		150	°C
Peak Reverse Voltage	V _{RM}		60	V
Repetitive Peak Surge Reverse Voltage	V _{RRSM}	Pulse width 0.5ms, duty 1/40	65	V
Average Rectified Forward Current	I _O	50Hz sine wave, R-load, Rating for each diode I _O /2, T _c =132°C	10	A
Peak Surge Forward Current	I _{FSSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, T _j =25°C	150	A
Repetitive Peak Surge Reverse Power	P _{RRSM}	Pulse width 10 μ s, Rating of per diode, T _j =25°C	330	W

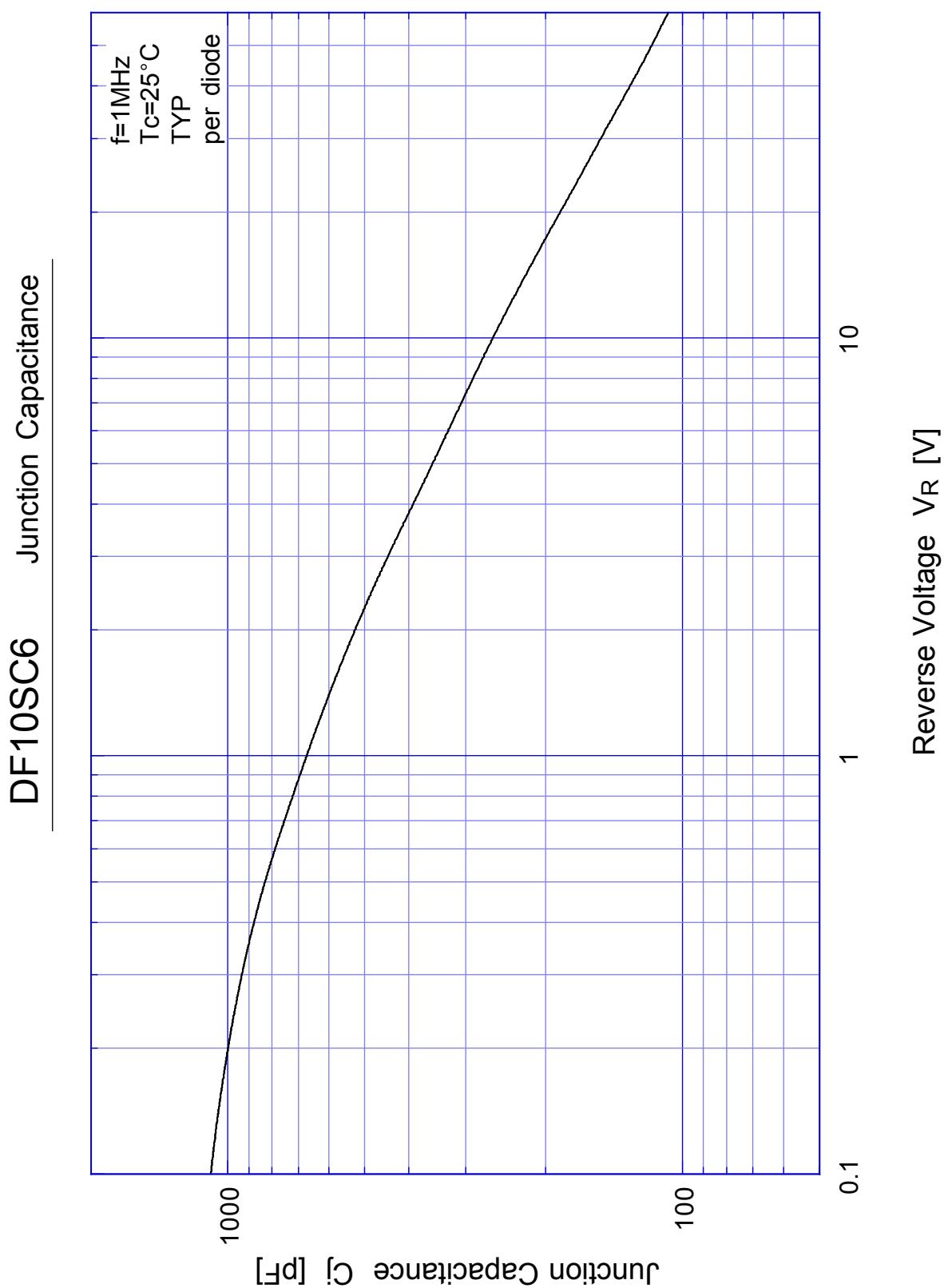
● Electrical Characteristics (If not specified Tc=25°C)

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	θ _{jc}	junction to case	Max.2.0	°C/W

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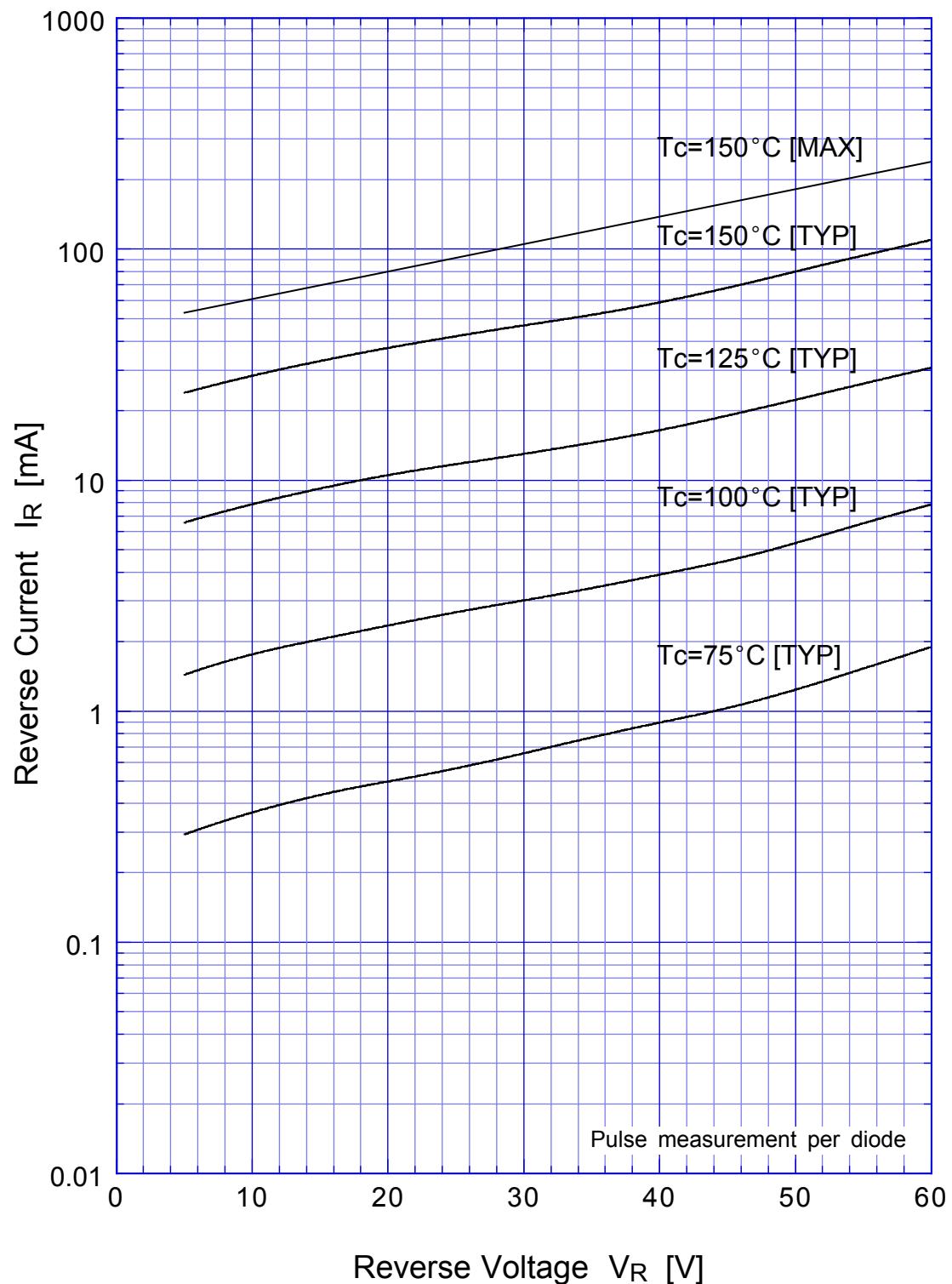
Forward Voltage



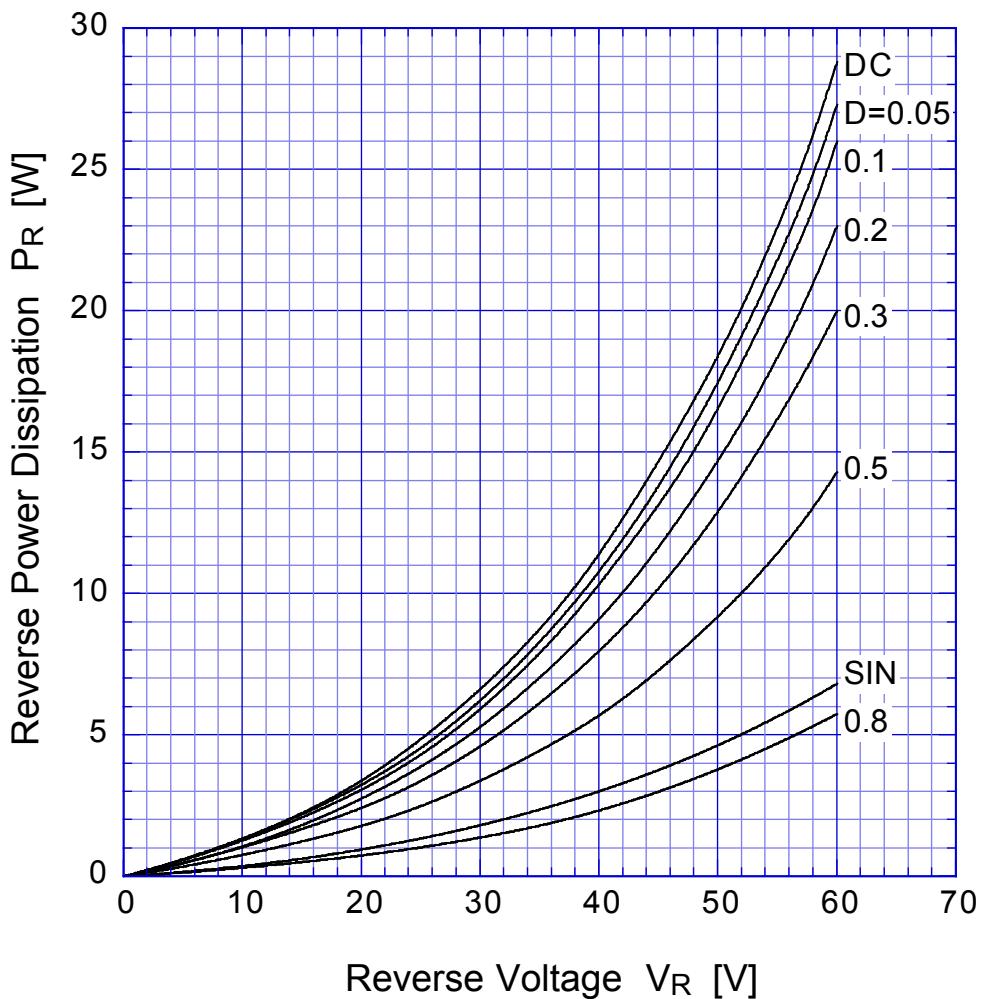


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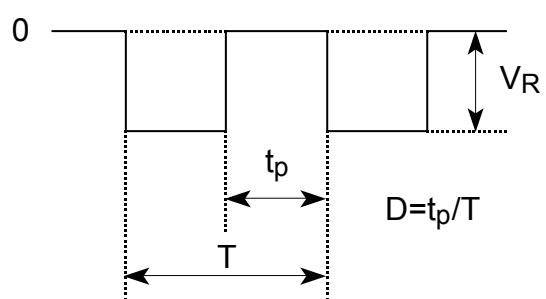
Reverse Current



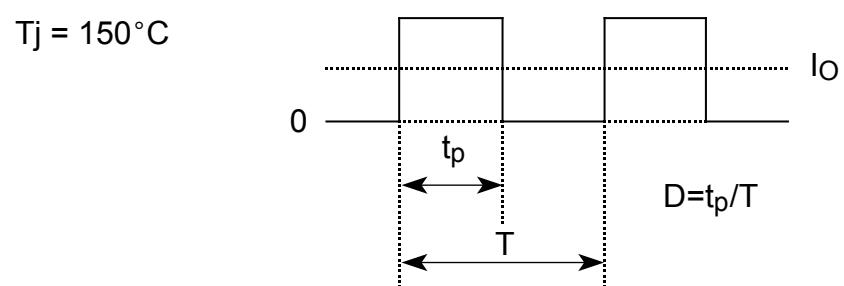
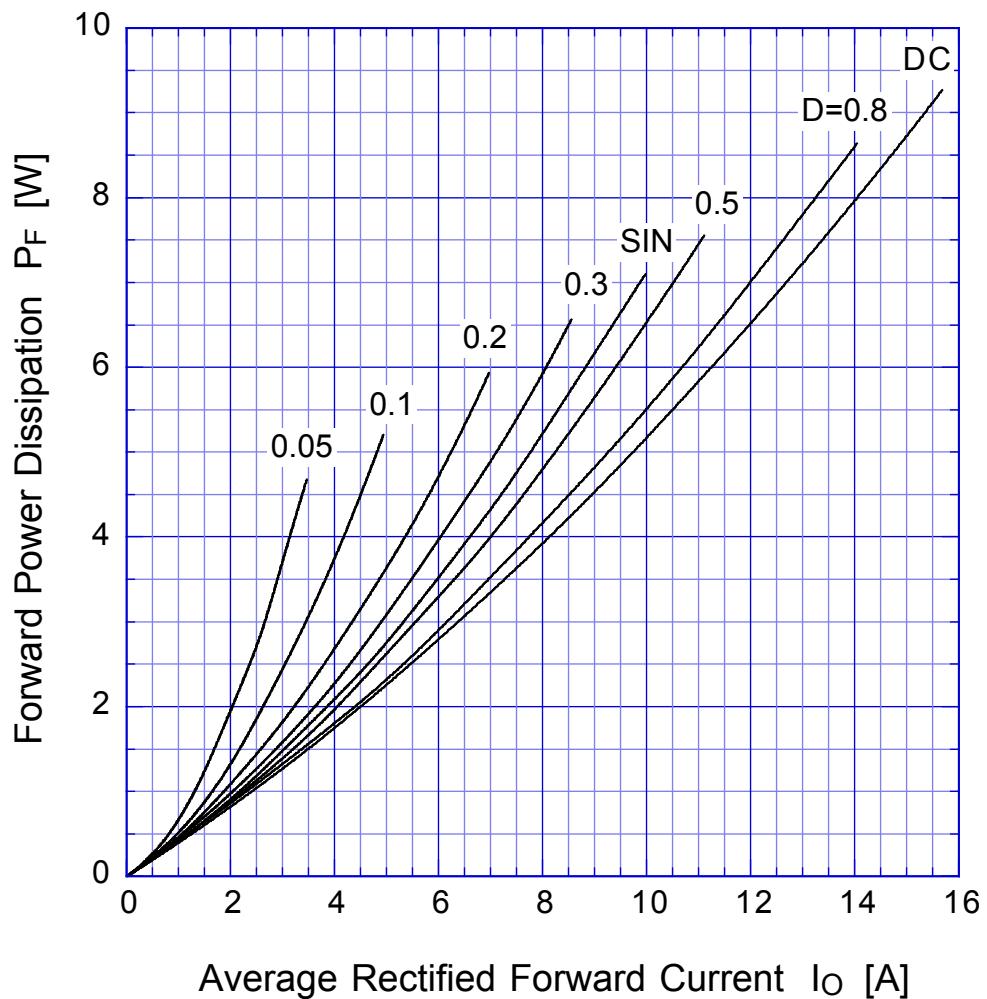
DF10SC6 Reverse Power Dissipation

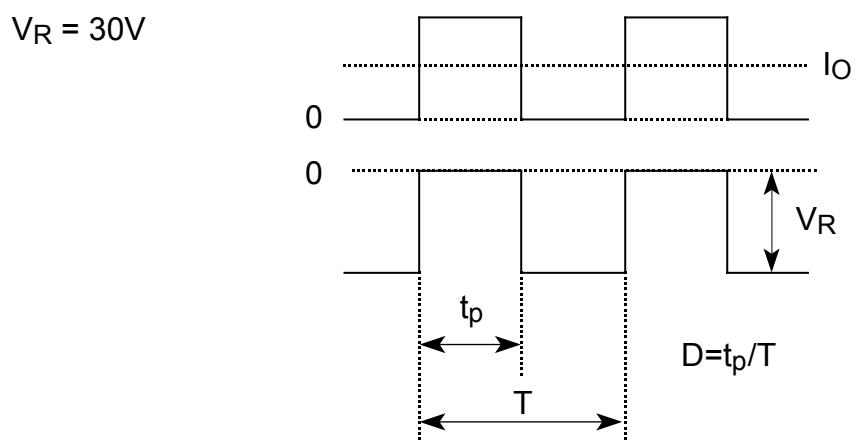
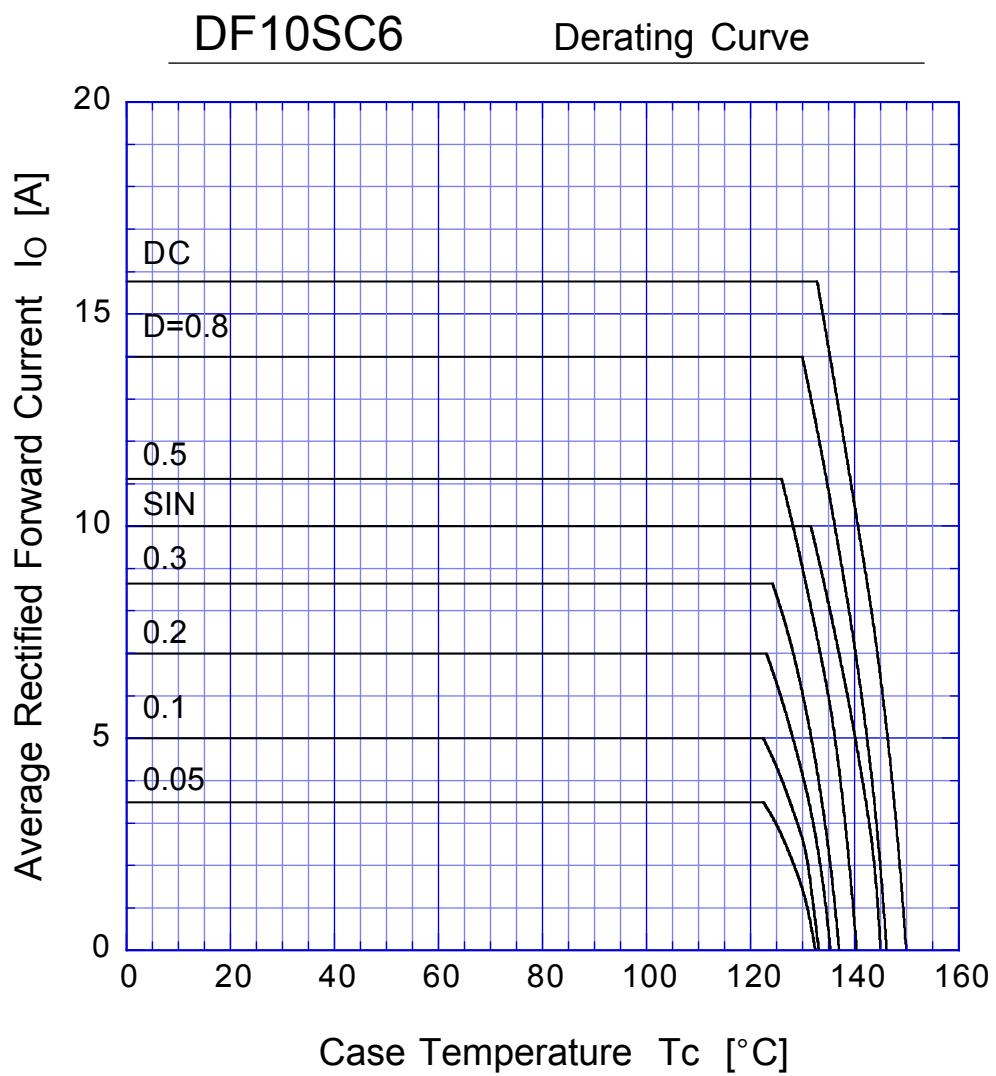


$T_j = 150^\circ\text{C}$



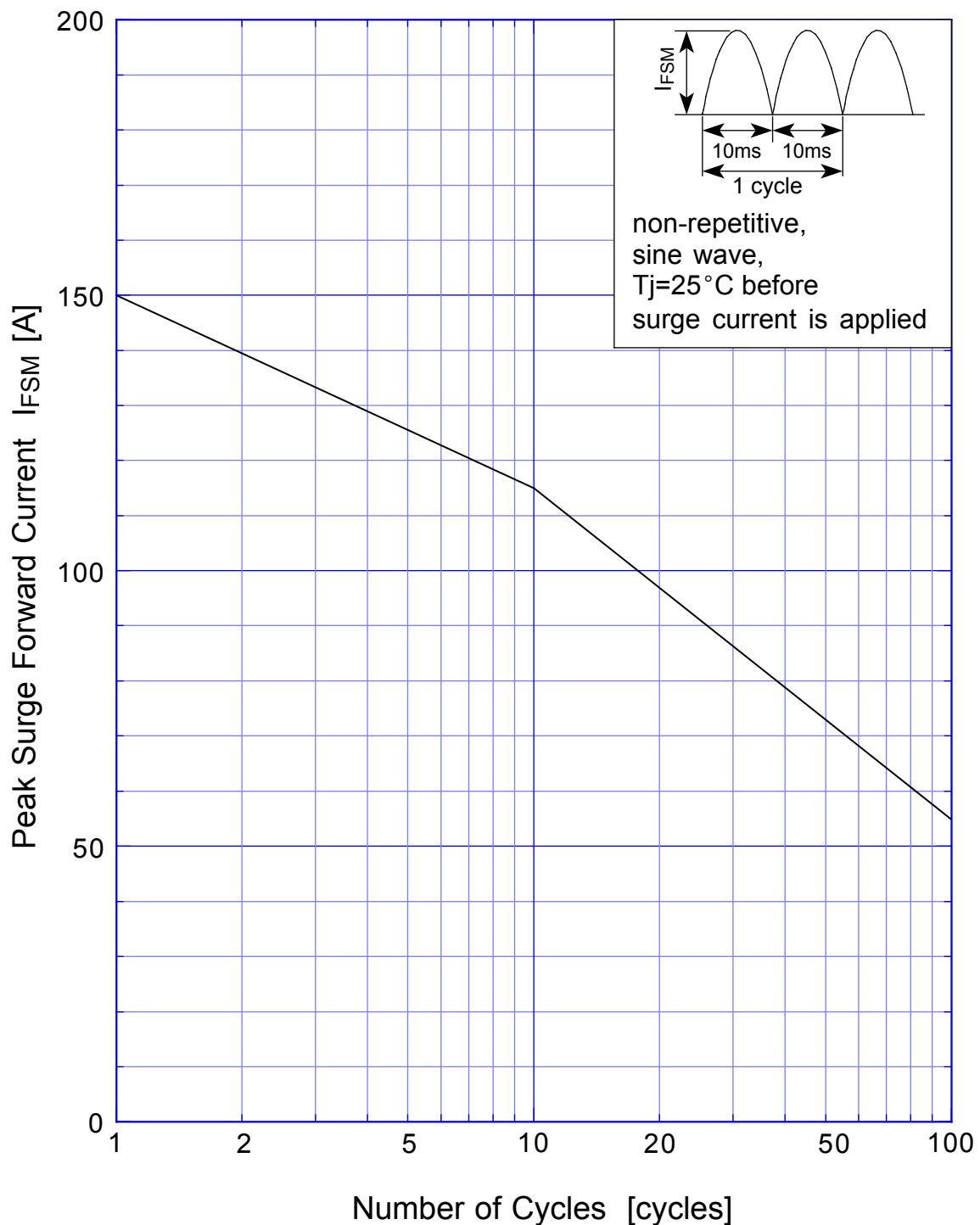
DF10SC6 Forward Power Dissipation





DF10SC6

Peak Surge Forward Capability



SBD Repetitive Surge Reverse Power Derating Curve



SBD Repetitive Surge Reverse Power Capability

