

SHINDENGEN

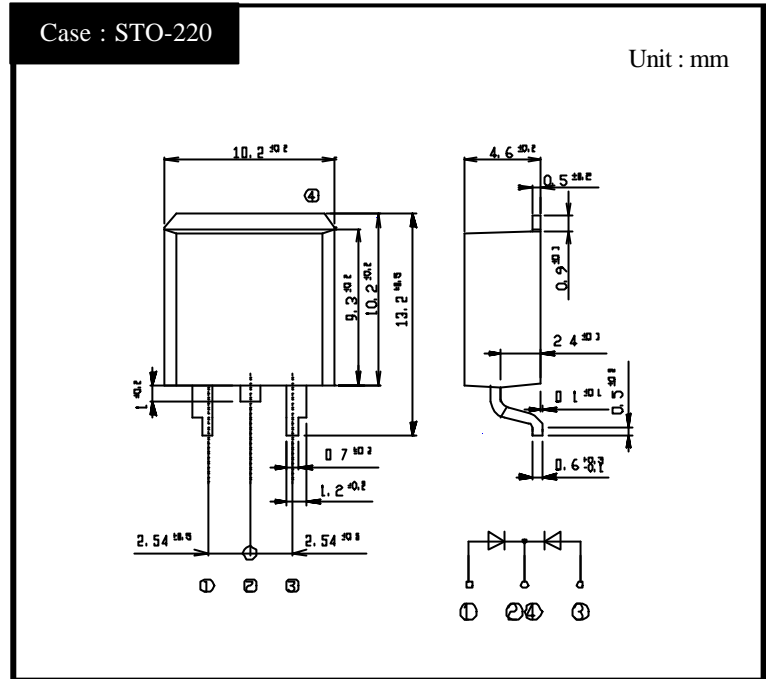
Schottky Rectifiers (SBD)

Dual

DF10SC6

60V 10A

OUTLINE DIMENSIONS



RATINGS

Absolute Maximum Ratings (If not specified $T_c=25$)

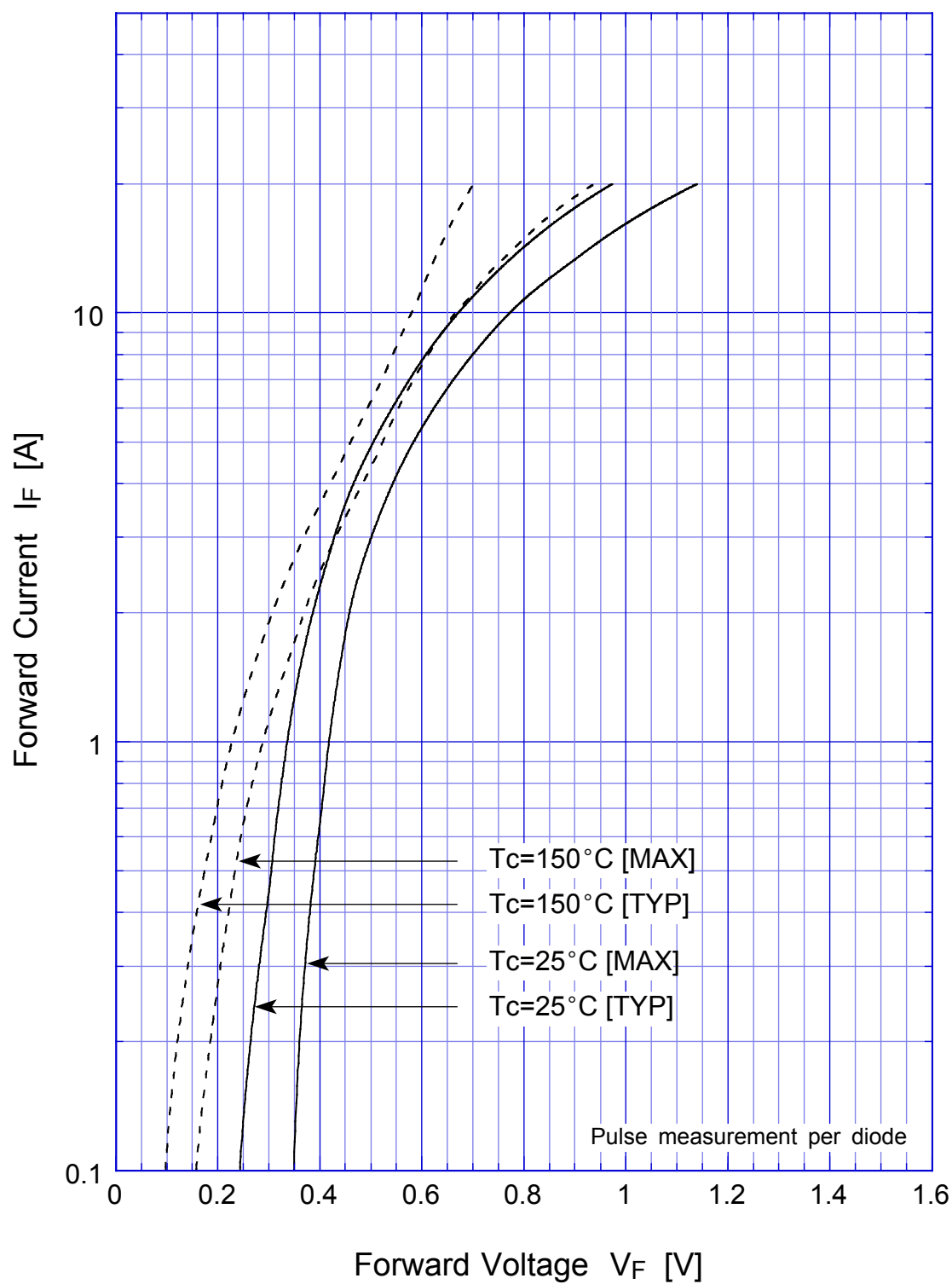
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	T_{stg}		-55 ~ 150	
Operating Junction Temperature	T_j		150	
Peak Reverse Voltage	V_{RM}		60	V
Repetitive Peak Surge Reverse Voltage	V_{RRSM}	Pulse width 0.5ms, duty 1/40	65	V
Average Rectified Forward Current	I_o	50Hz sine wave, R-load, Rating for each diode $I_o/2$, $T_c=132$	10	A
Peak Surge Forward Current	I_{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, $T_j=25$	150	A
Repetitive Peak Surge Reverse Power	P_{RRSM}	Pulse width 10 μ s, Rating of per diode, $T_j=25$	330	W

Electrical Characteristics (If not specified $T_c=25$)

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	/W

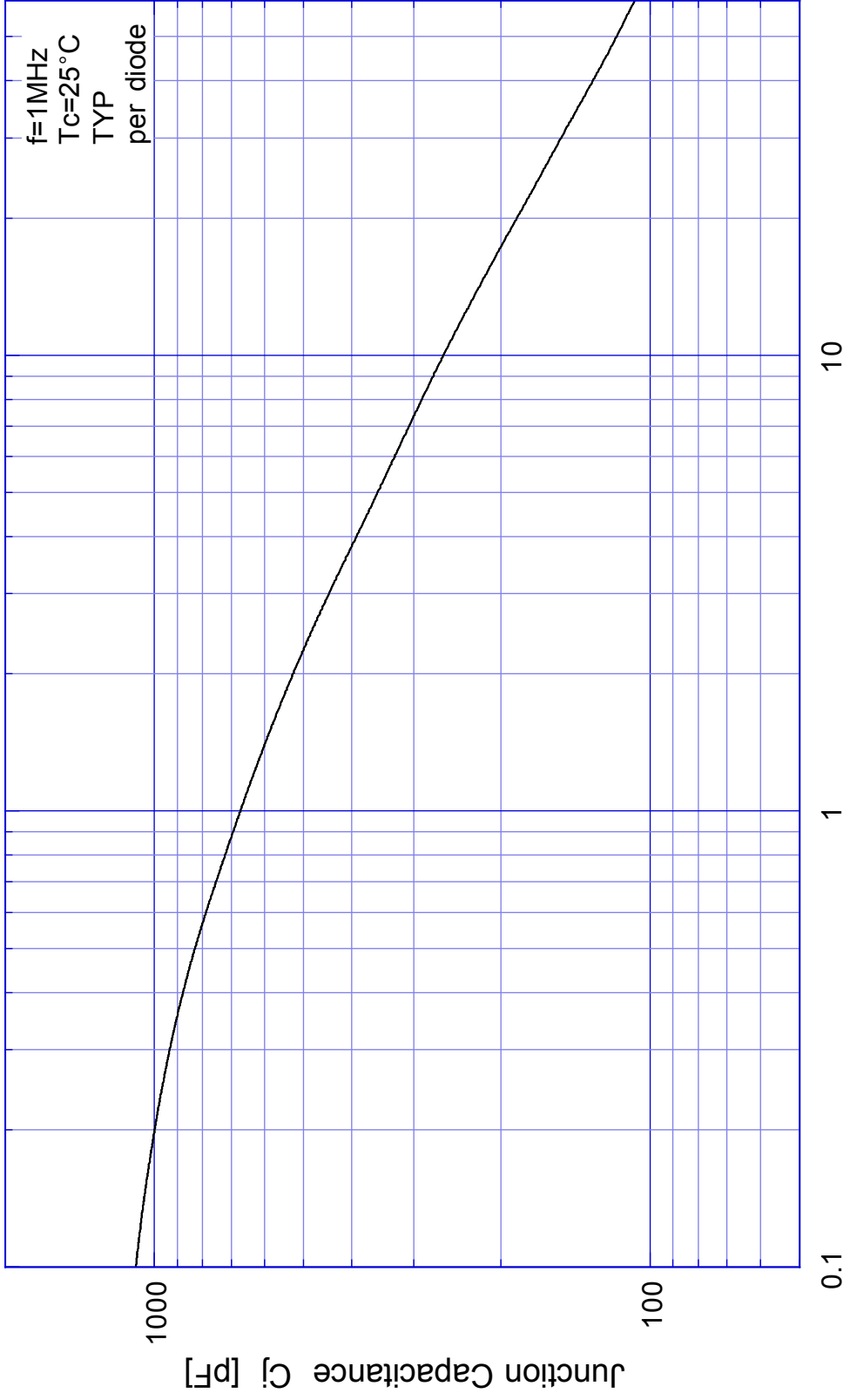
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Forward Voltage



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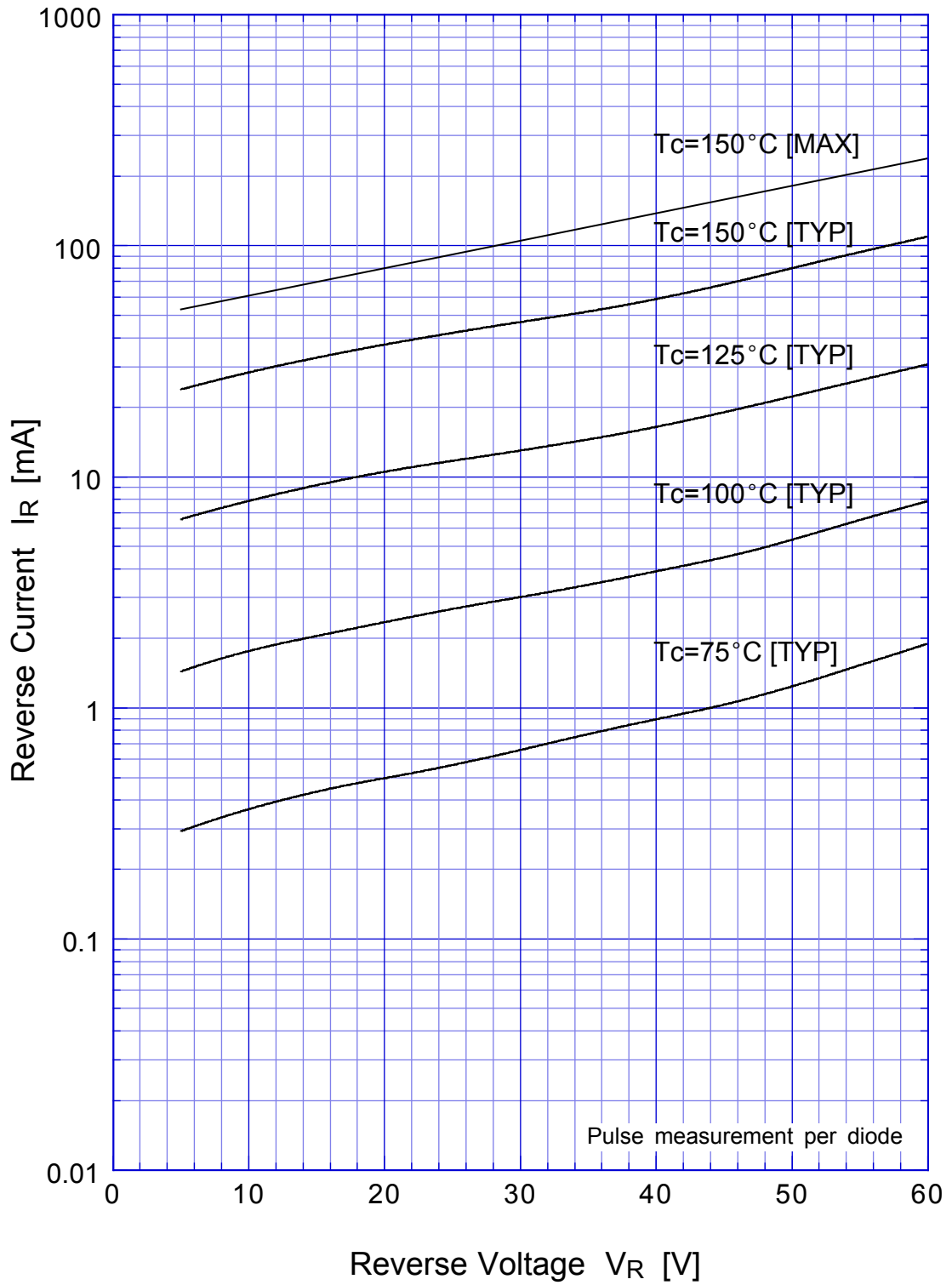
Junction Capacitance



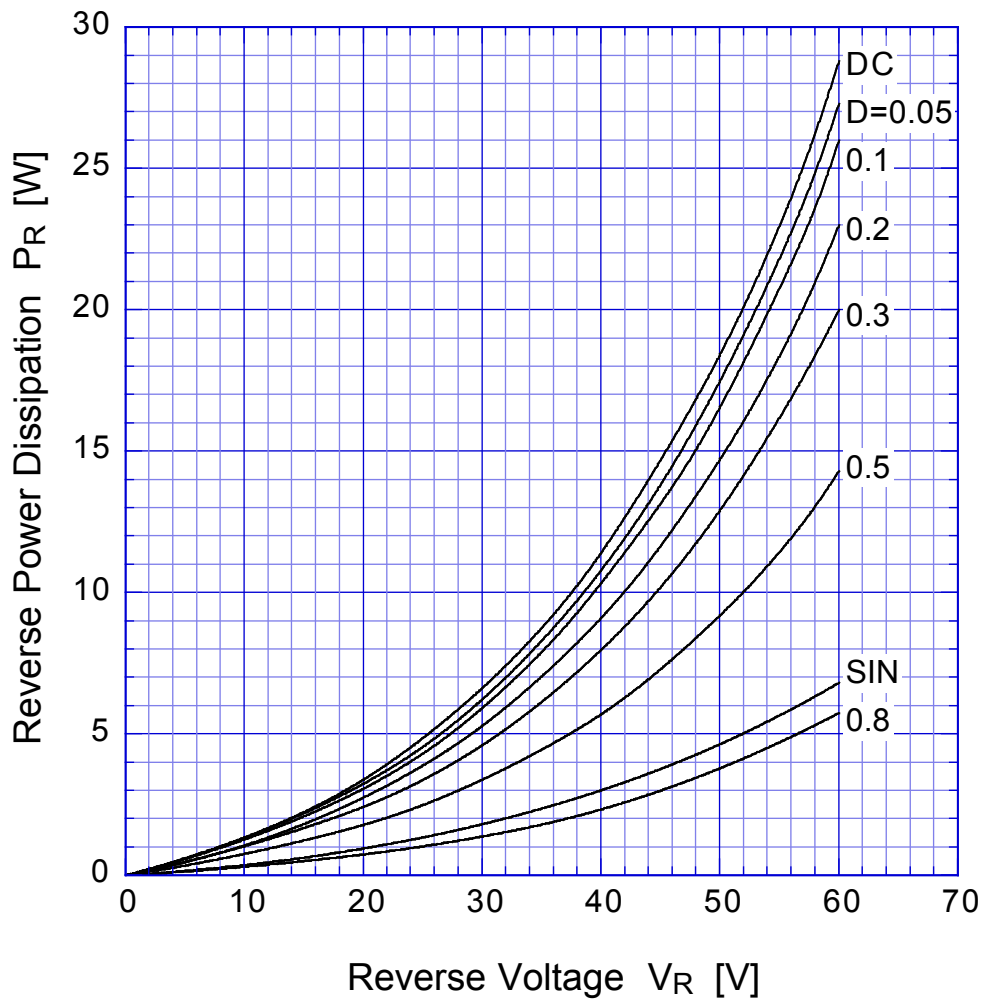
Reverse Voltage V_R [V]

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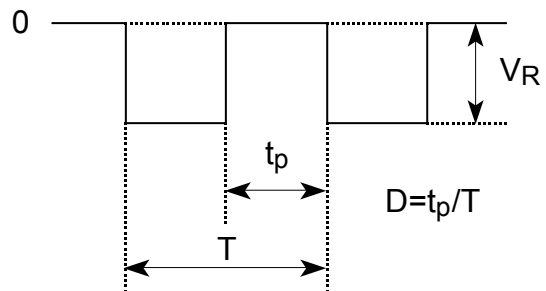
Reverse Current



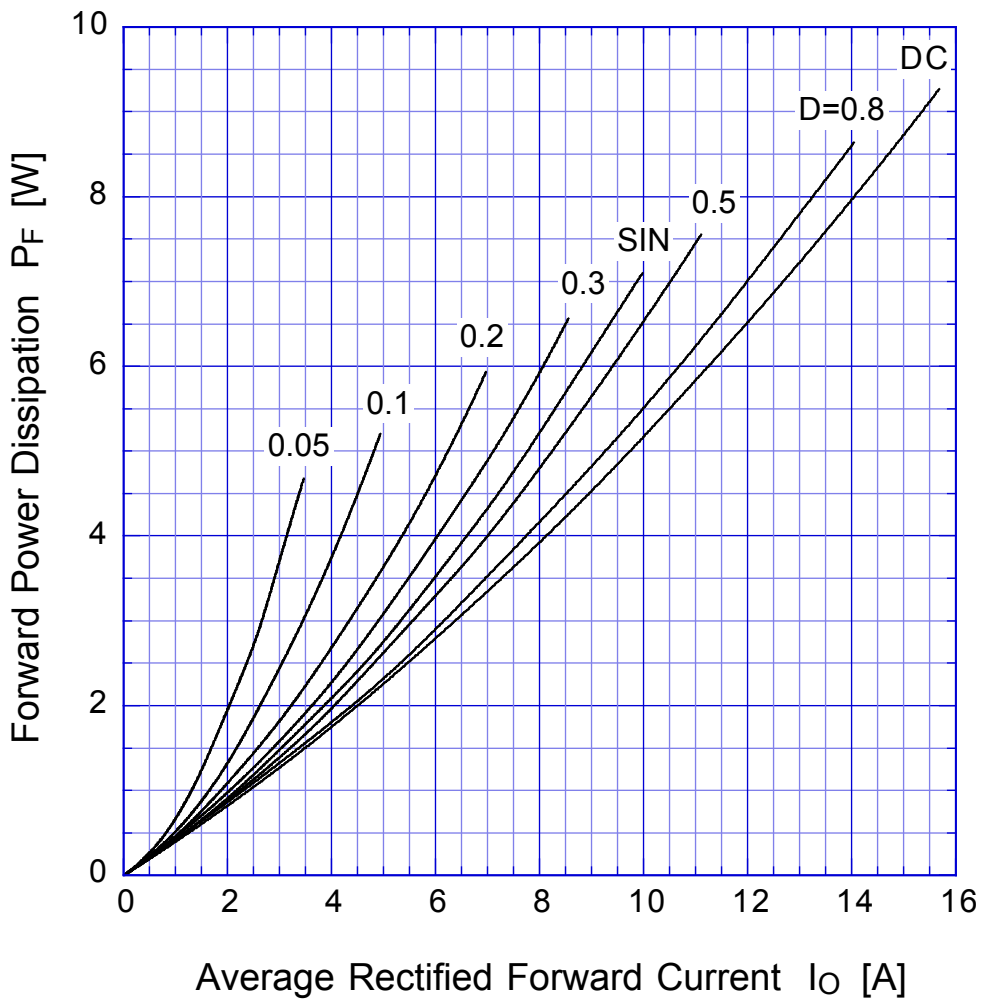
DF10SC6 Reverse Power Dissipation



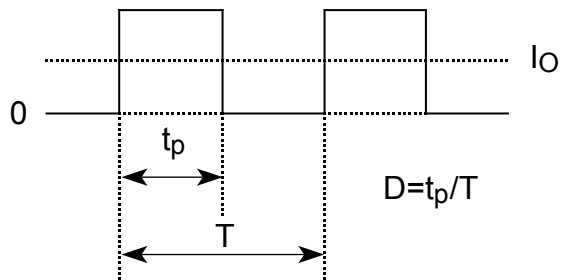
$T_j = 150^\circ\text{C}$



DF10SC6 Forward Power Dissipation

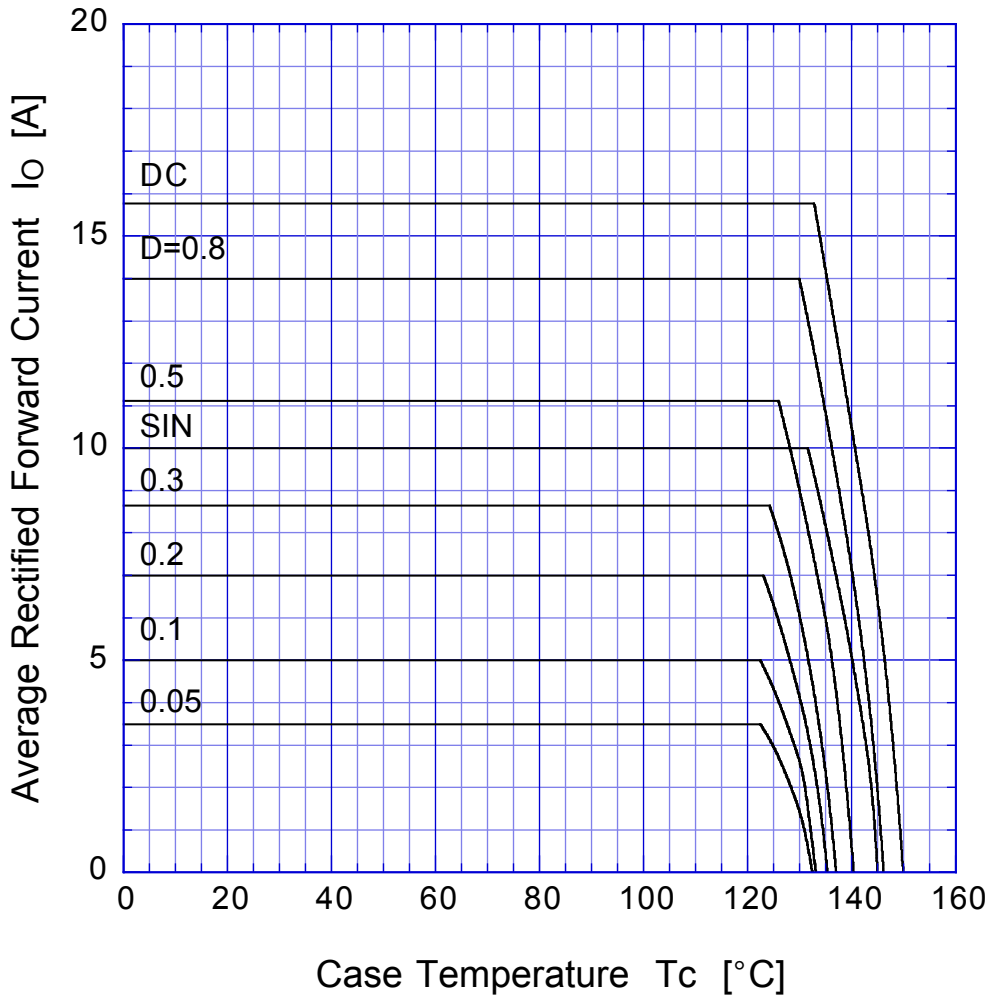


$T_j = 150^\circ\text{C}$



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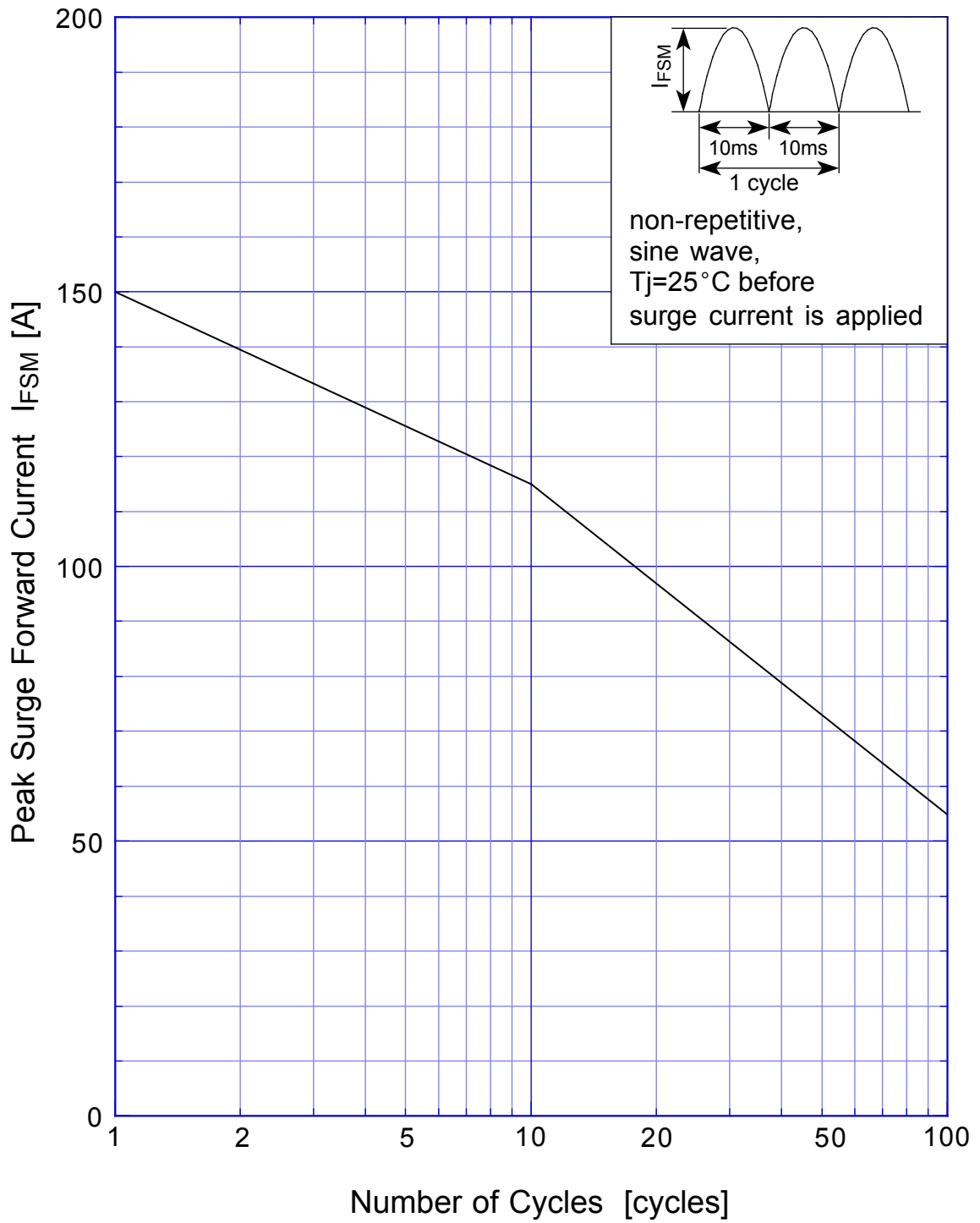
Derating Curve



$V_R = 30V$



DF10SC6 Peak Surge Forward Capability



SBD Repetitive Surge Reverse Power Derating Curve



SBD

Repetitive Surge Reverse Power Capability

