

SHINDENGEN

Schottky Rectifiers (SBD)

Dual

DF40SC4

40V 40A

FEATURE

SMT

T_j150

P_{RRSM} avalanche guarantee

High current capacity with Small Package

APPLICATION

Switching power supply

DC/DC converter

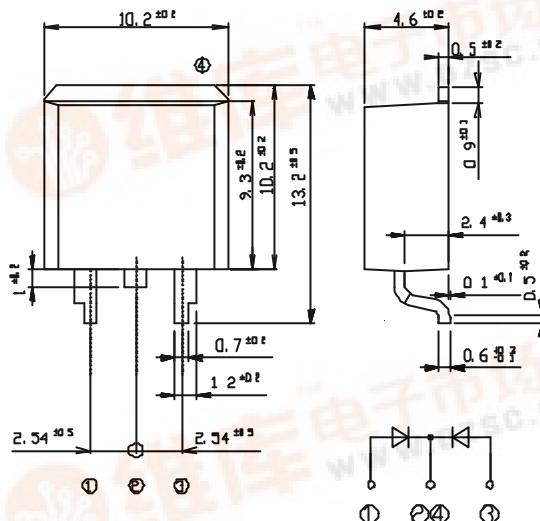
Home Appliances, Office Equipment

Telecommunication

OUTLINE DIMENSIONS

Case : STO-220

Unit : mm



RATINGS

Absolute Maximum Ratings (If not specified T_c=25)

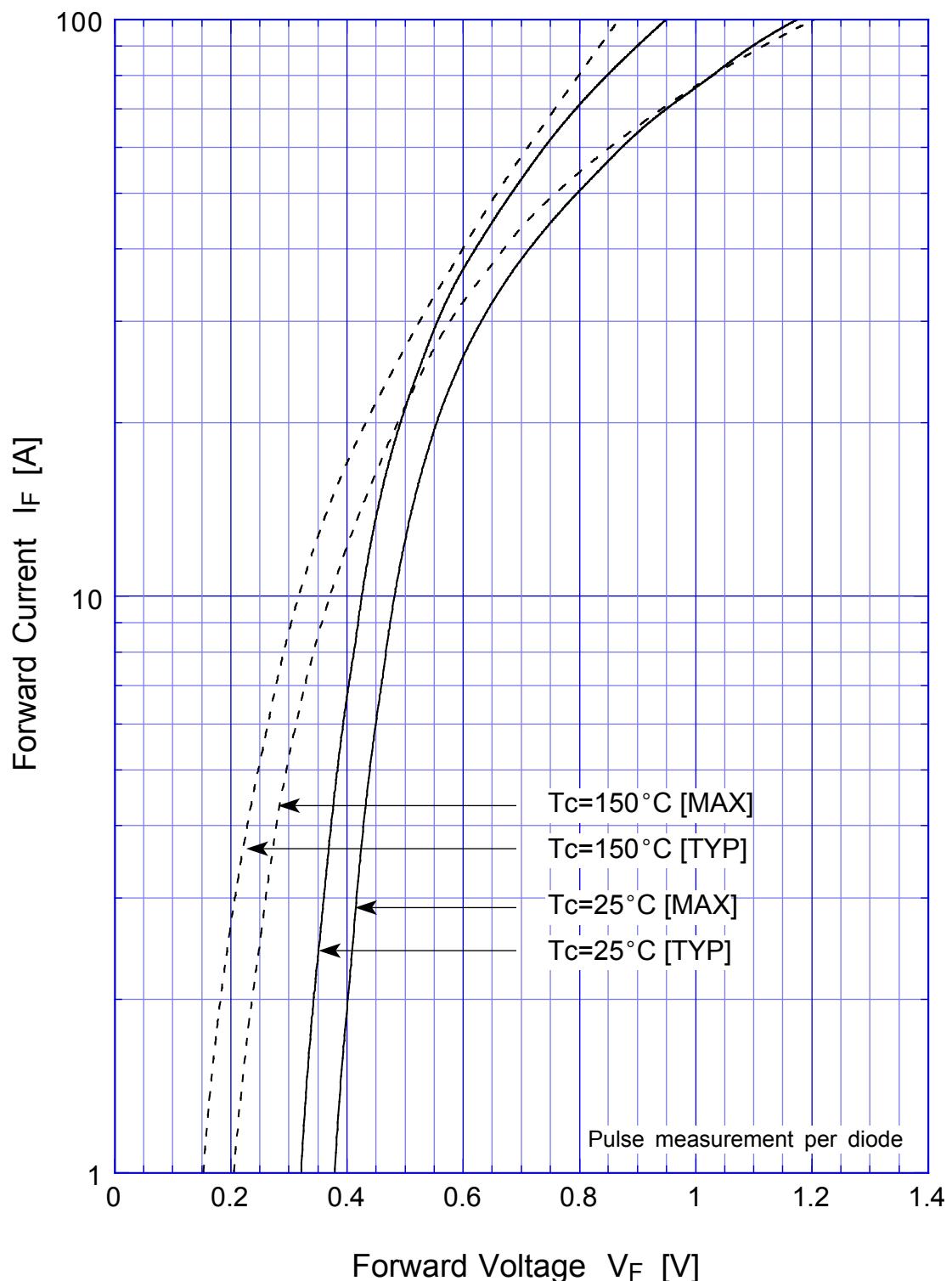
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	T _{stg}		-55 ~ 150	
Operating Junction Temperature	T _j		150	
Maximum Reverse Voltage	V _{RM}		40	V
Repetitive Peak Surge Reverse Voltage	V _{RRSM}	Pulse width 0.5ms, duty 1/40	45	V
Average Rectified Forward Current	I _o	50Hz sine wave, R-load, Rating for each diode I _o /2, T _c =106	40	A
Peak Surge Forward Current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, T _j =25	350	A
Repetitive Peak Surge Reverse Power	P _{RRSM}	Pulse width 10 μ s, Rating of per diode, T _j =25	1000	W

Electrical Characteristics (If not specified T_c=25)

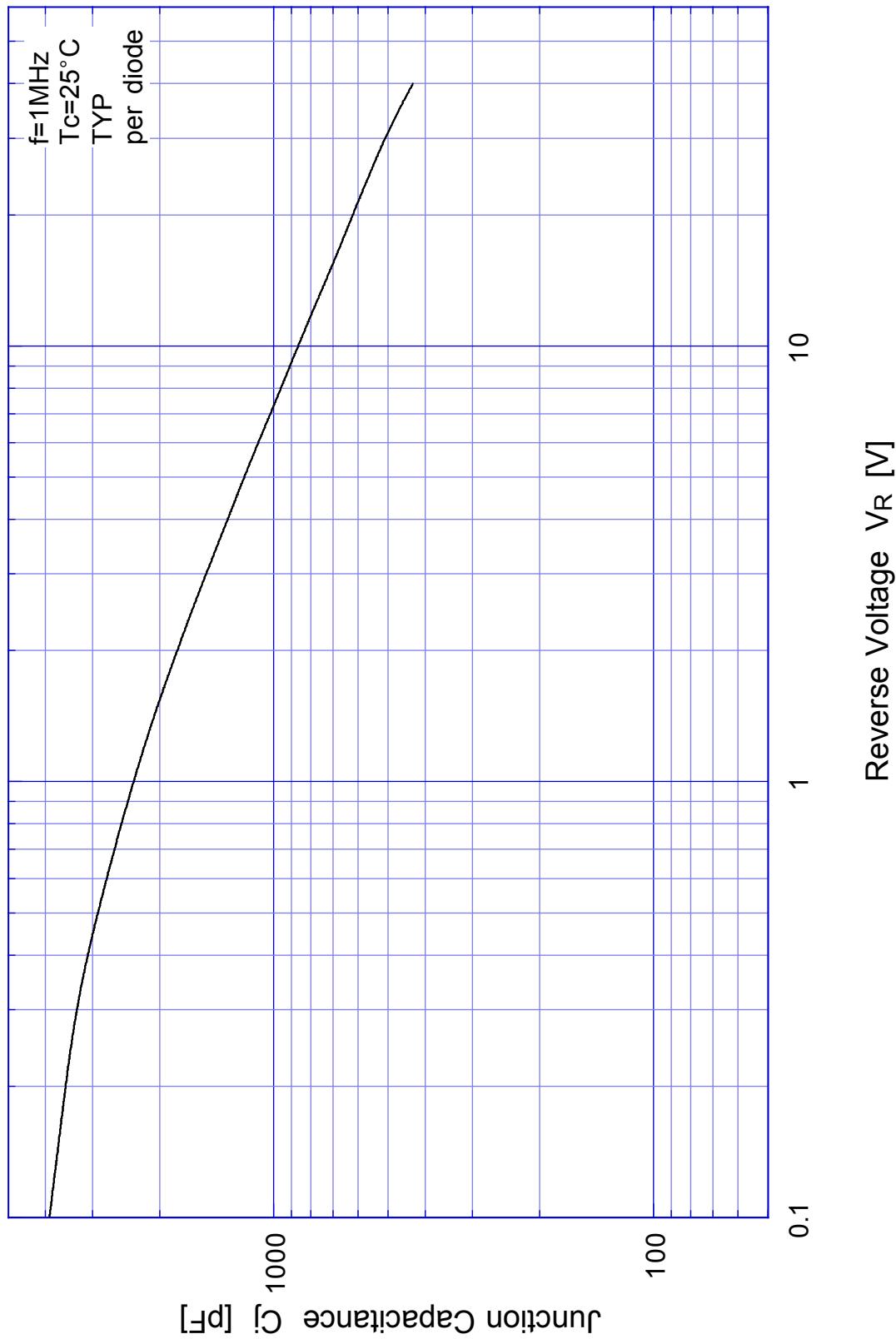
Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V _F	I _F =20A, Pulse measurement, Rating of per diode	Max.0.55	V
Reverse Current	I _R	V _R =V _{RM} , Pulse measurement, Rating of per diode	Max.14	mA
Junction Capacitance	C _j	f=1MHz, V _R =10V, Rating of per diode	Typ.860	pF
Thermal Resistance	j _C	junction to case	Max.1.5	/W

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Forward Voltage

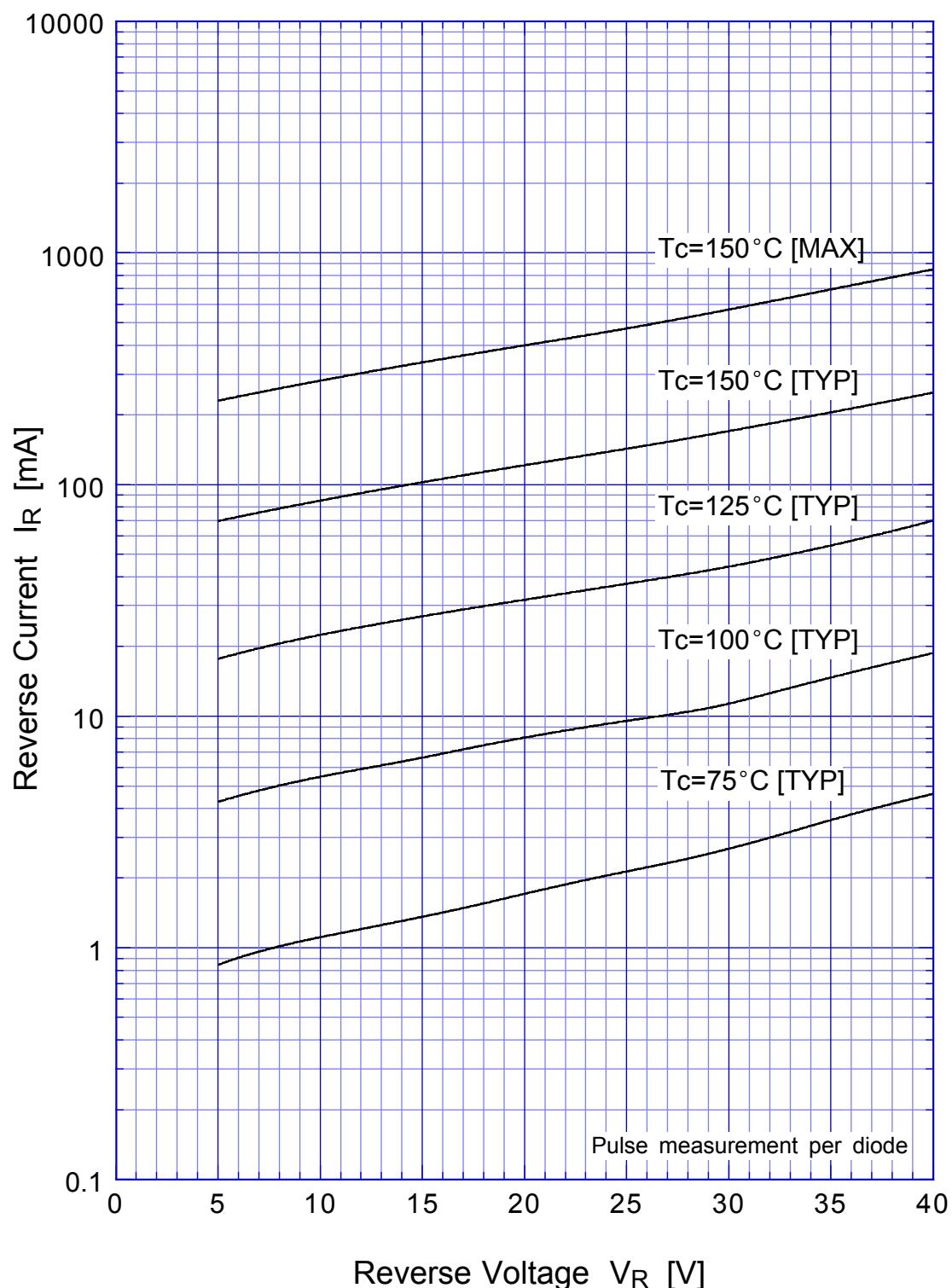


DF40SC4 Junction Capacitance

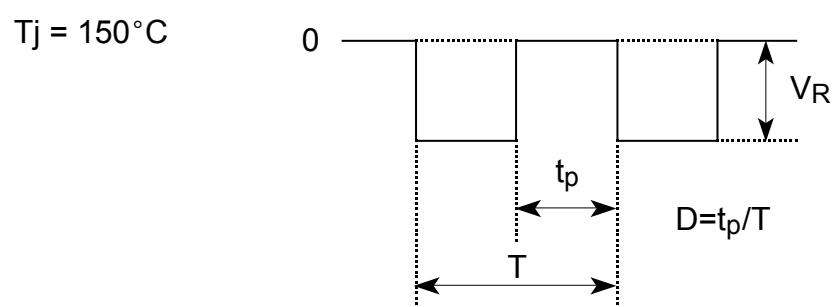
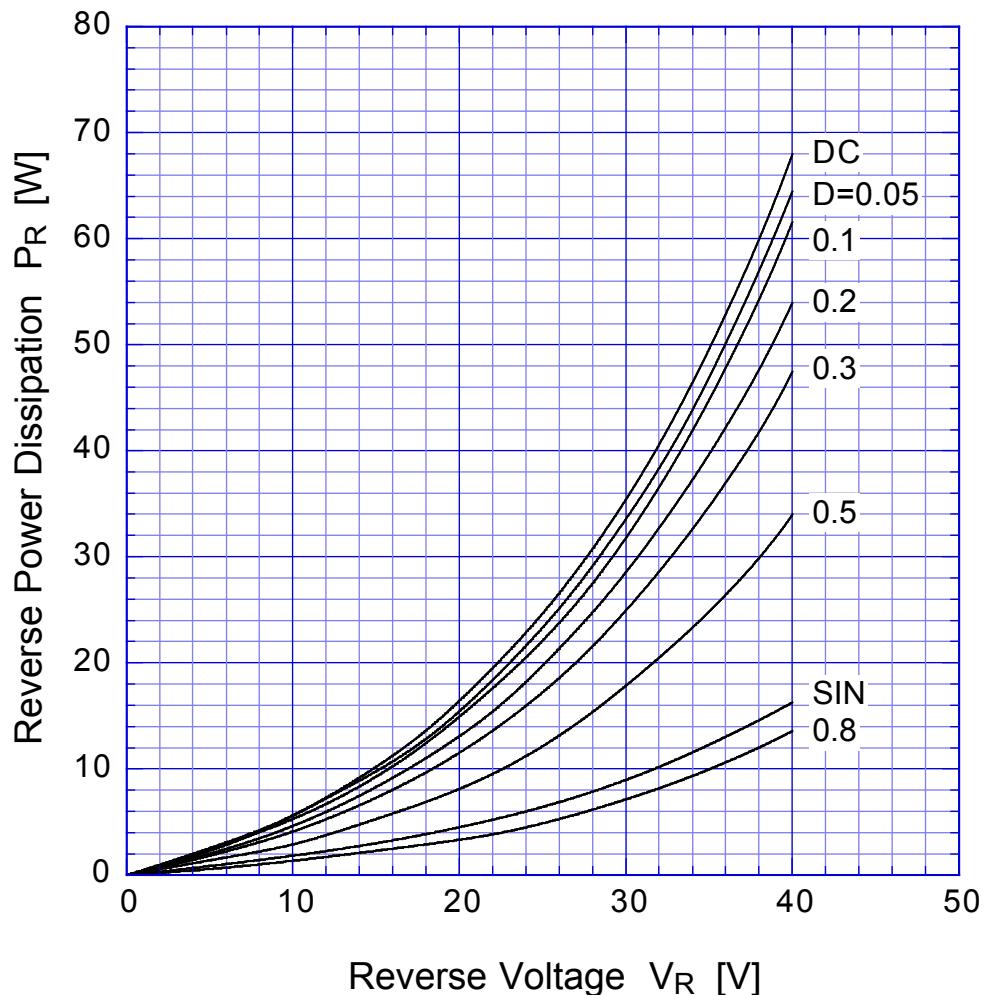


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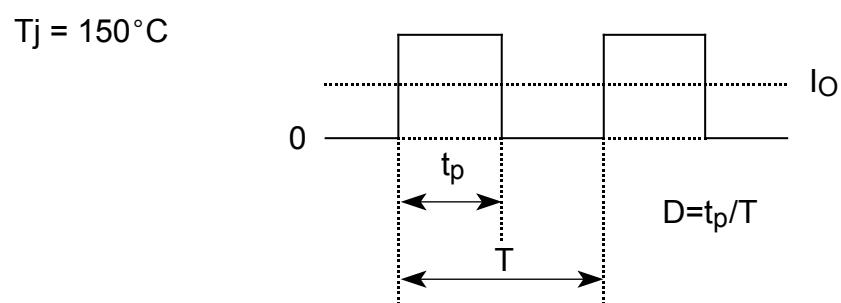
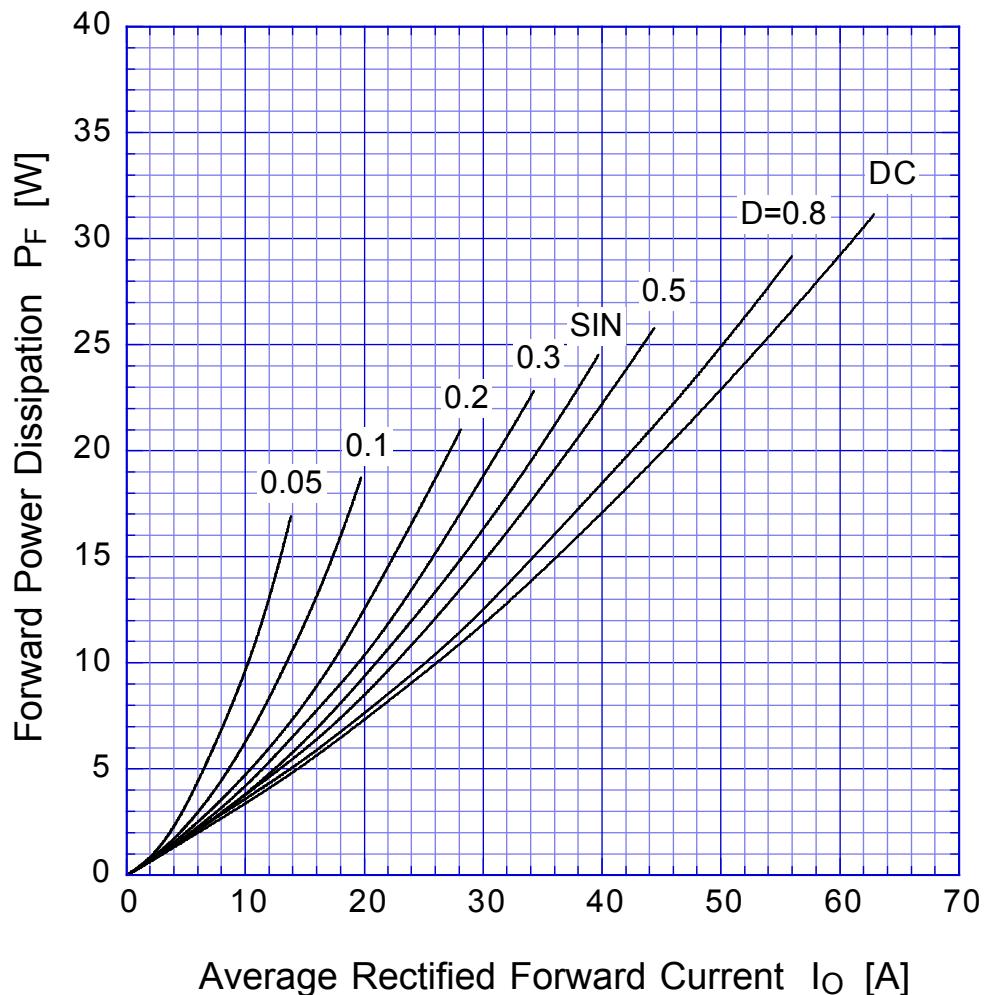
Reverse Current

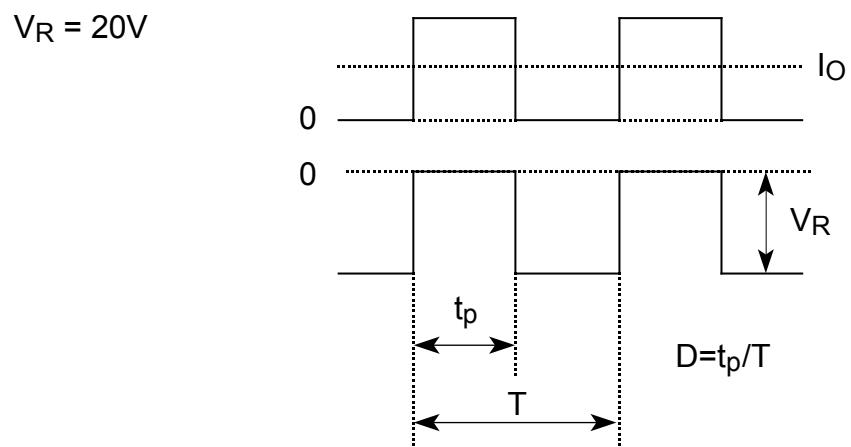
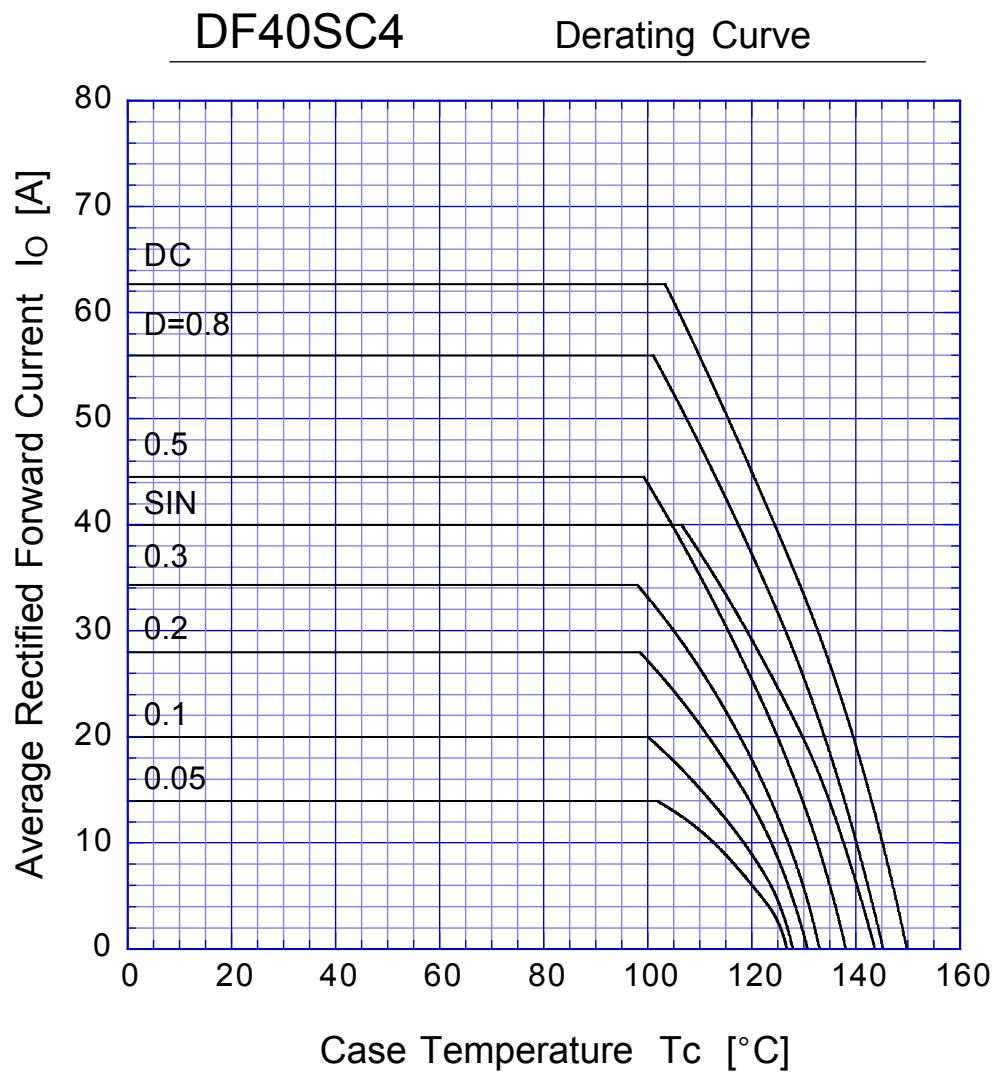


DF40SC4 Reverse Power Dissipation



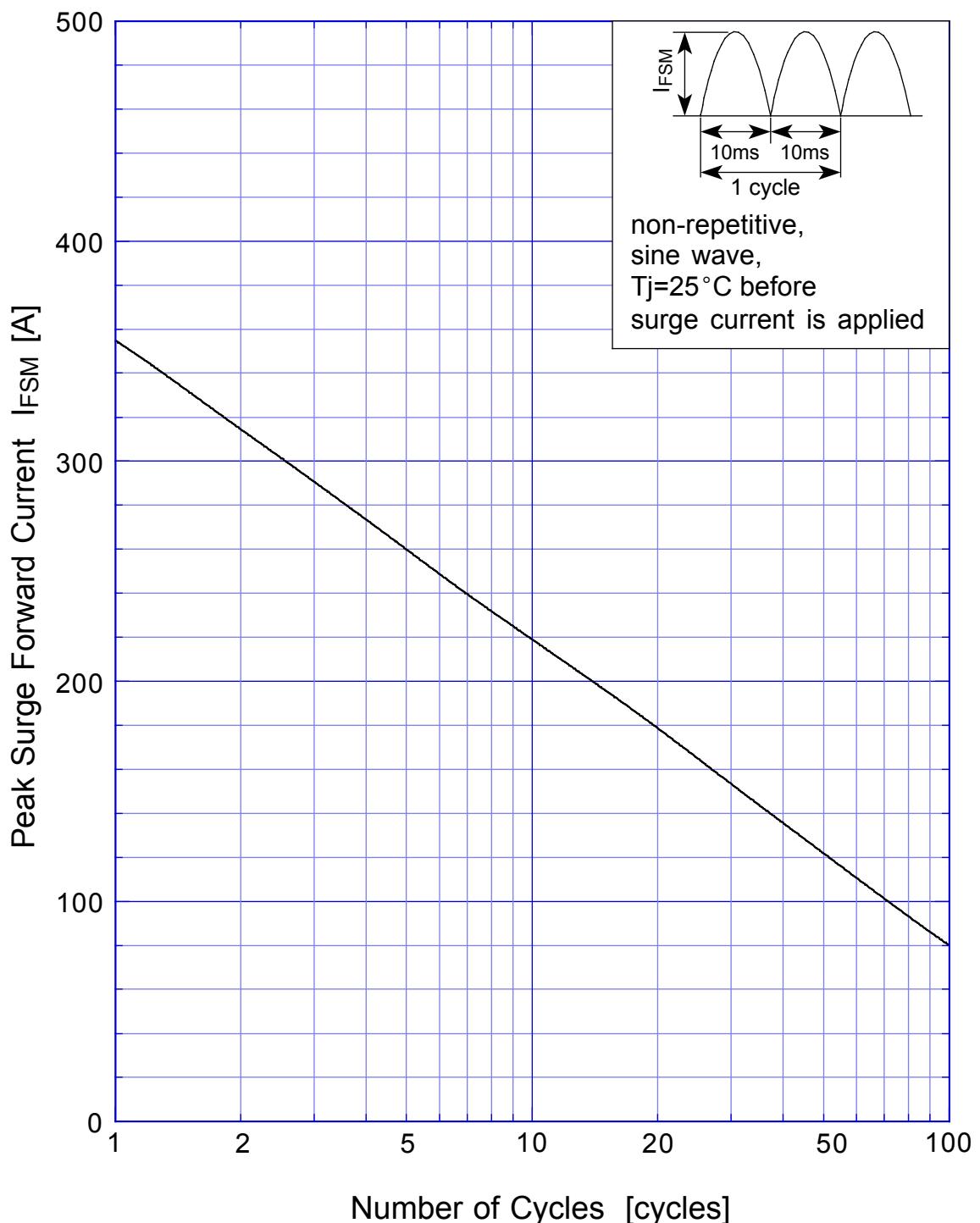
DF40SC4 Forward Power Dissipation



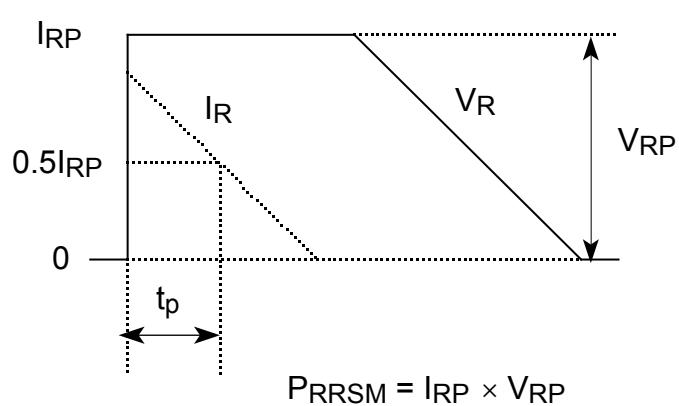
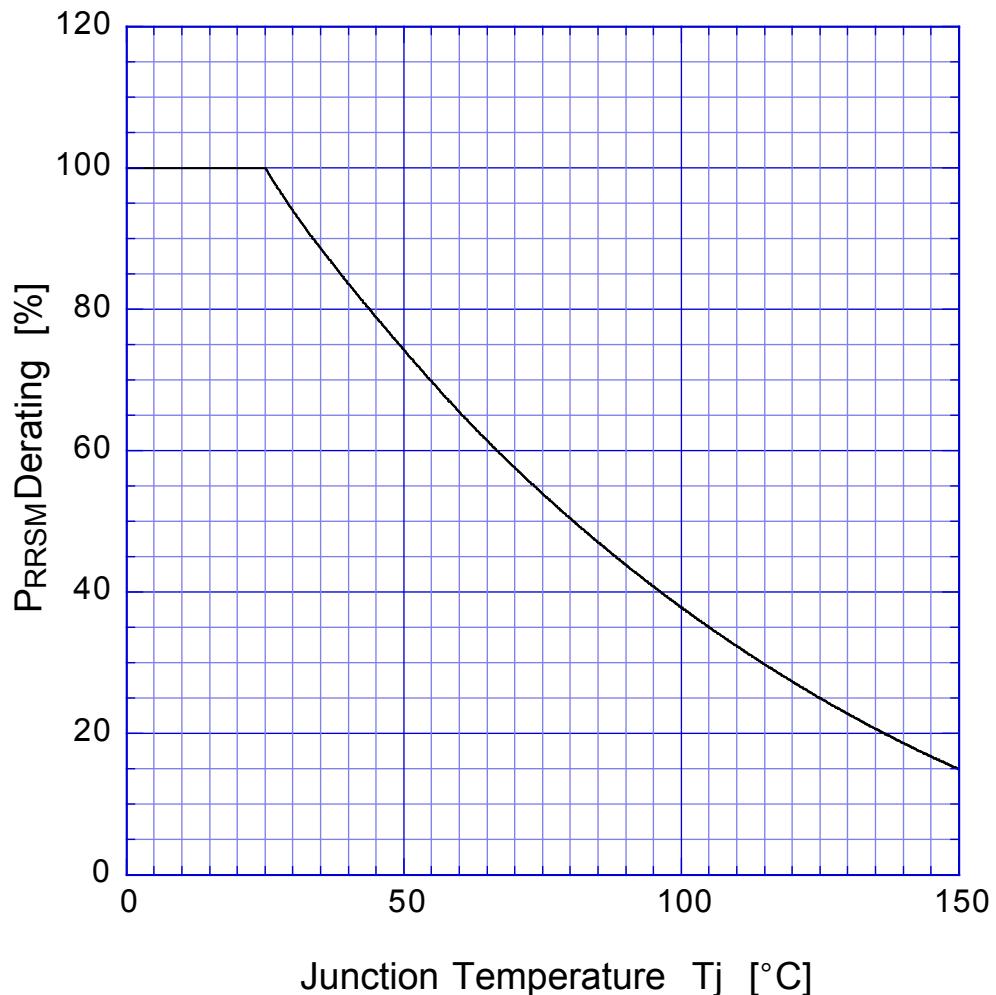


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Peak Surge Forward Capability



SBD Repetitive Surge Reverse Power Derating Curve



SBD Repetitive Surge Reverse Power Capability

