

SHINDENGEN

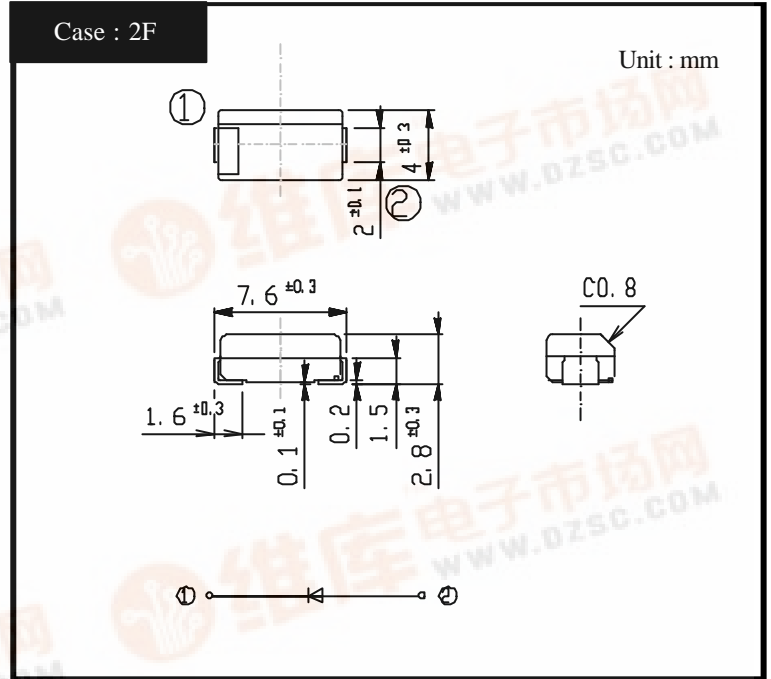
Schottky Rectifiers (SBD)

Single

D3FS6

60V 3A

OUTLINE DIMENSIONS



RATINGS

Absolute Maximum Ratings (If not specified Tl=25)

Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-55 ~ 150	
Operating Junction Temperature	Tj		150	
Peake 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 Ta=25 On alumina substrate	1.65	A
		50Hz sine wave, R-load Tl=87	3.0	
Peak Surge Forward Current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25	80	A
Repetitive Peak Surge Reverse Power	P _{RRSM}	Pulse width 10 μs, Tj=25	330	W

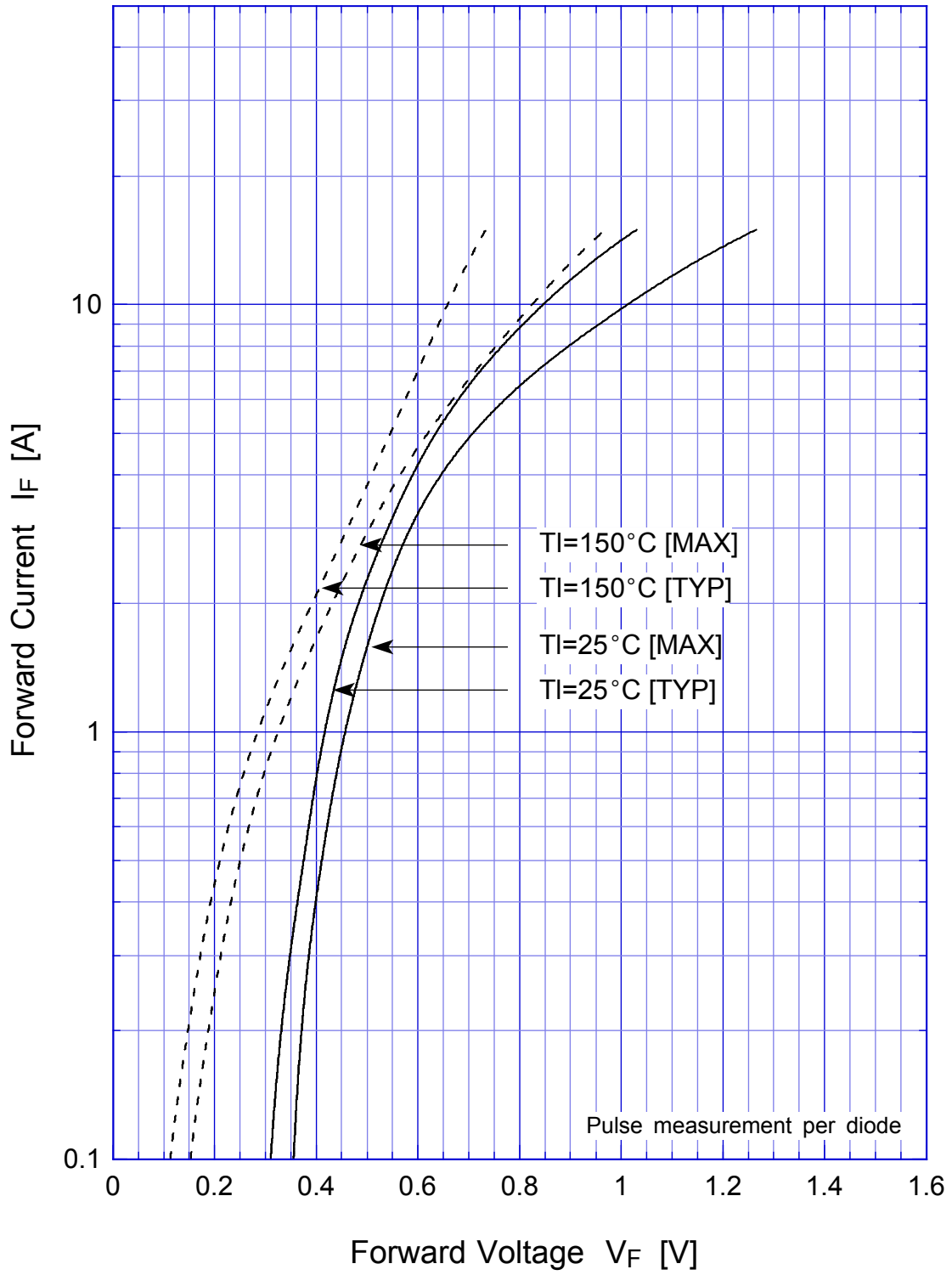
Electrical Characteristics (If not specified Tl=25)

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V _F	I _F =3A, Pulse measurement	Max.0.58	V
Reverse Current	I _R	V _R =V _{RM} , Pulse measurement	Max.2.5	mA
Junction Capacitance	C _j	f=1MHz, V _R =10V	Typ.130	pF
Thermal Resistance	j-l	junction to lead	Max.24	/W
	ja	junction to ambient On alumina substrate	Max.90	
	ja	junction to ambient On glass-epoxy substrate	Max.124	

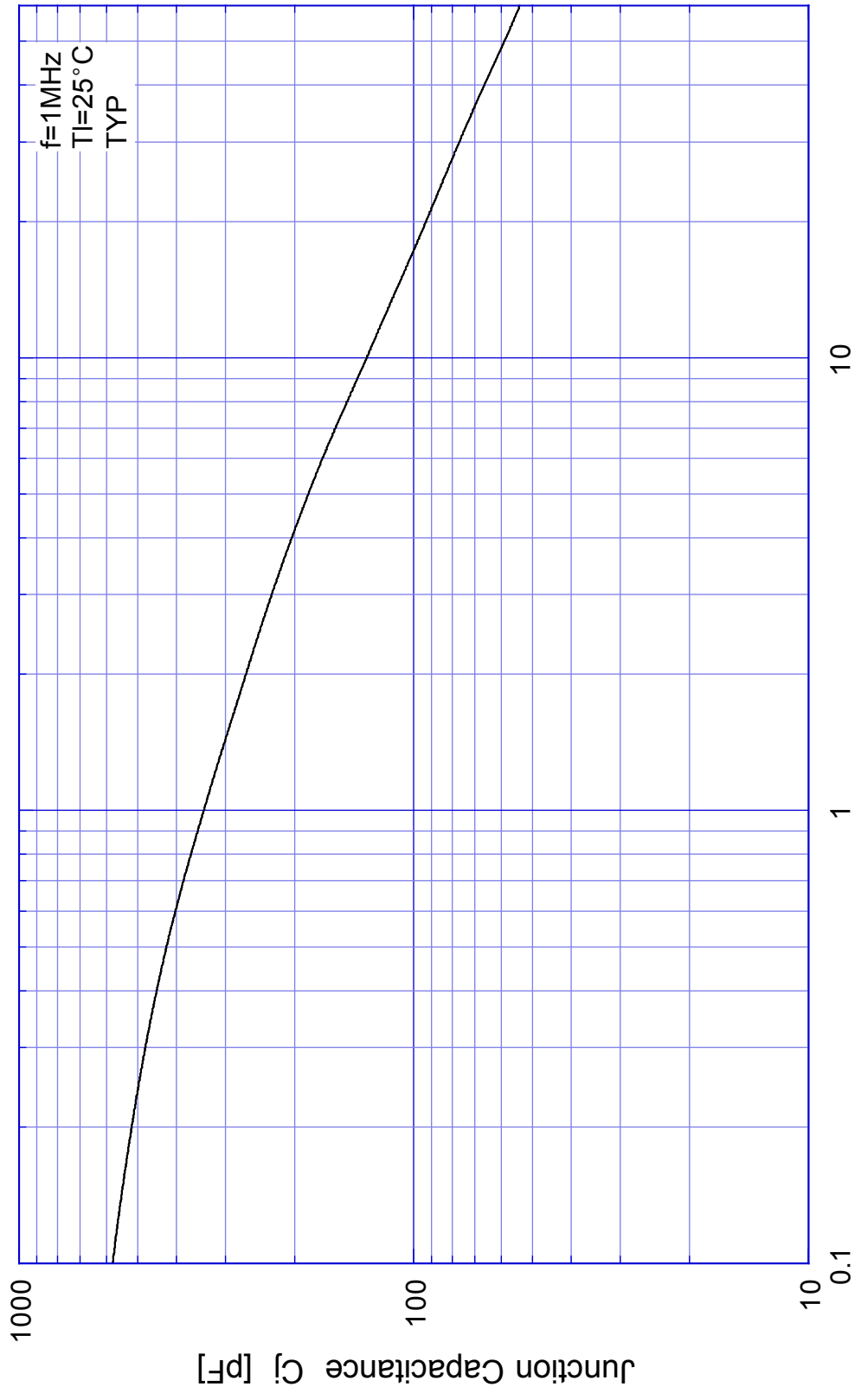


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Forward Voltage

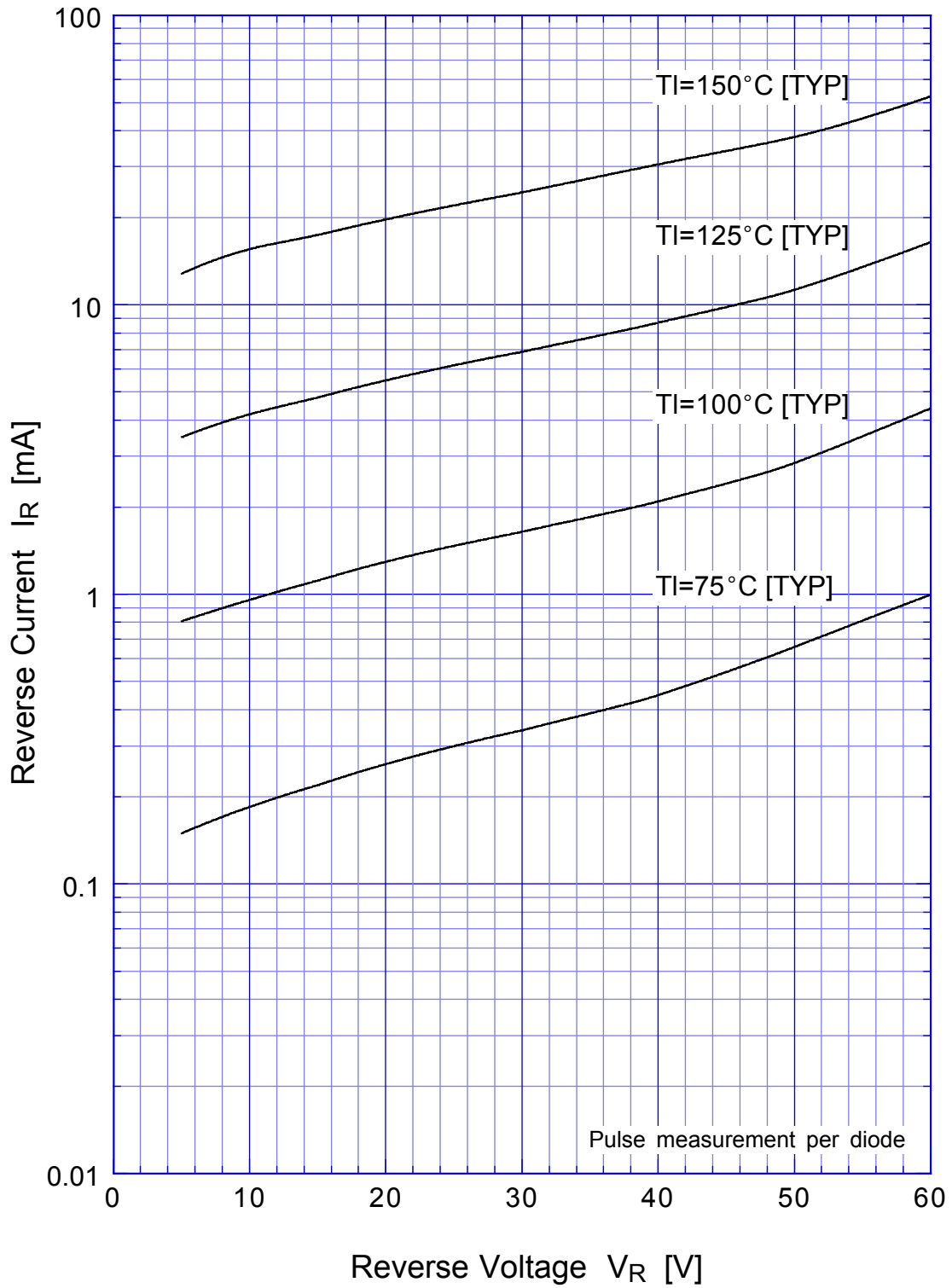


D3FS6 Junction Capacitance



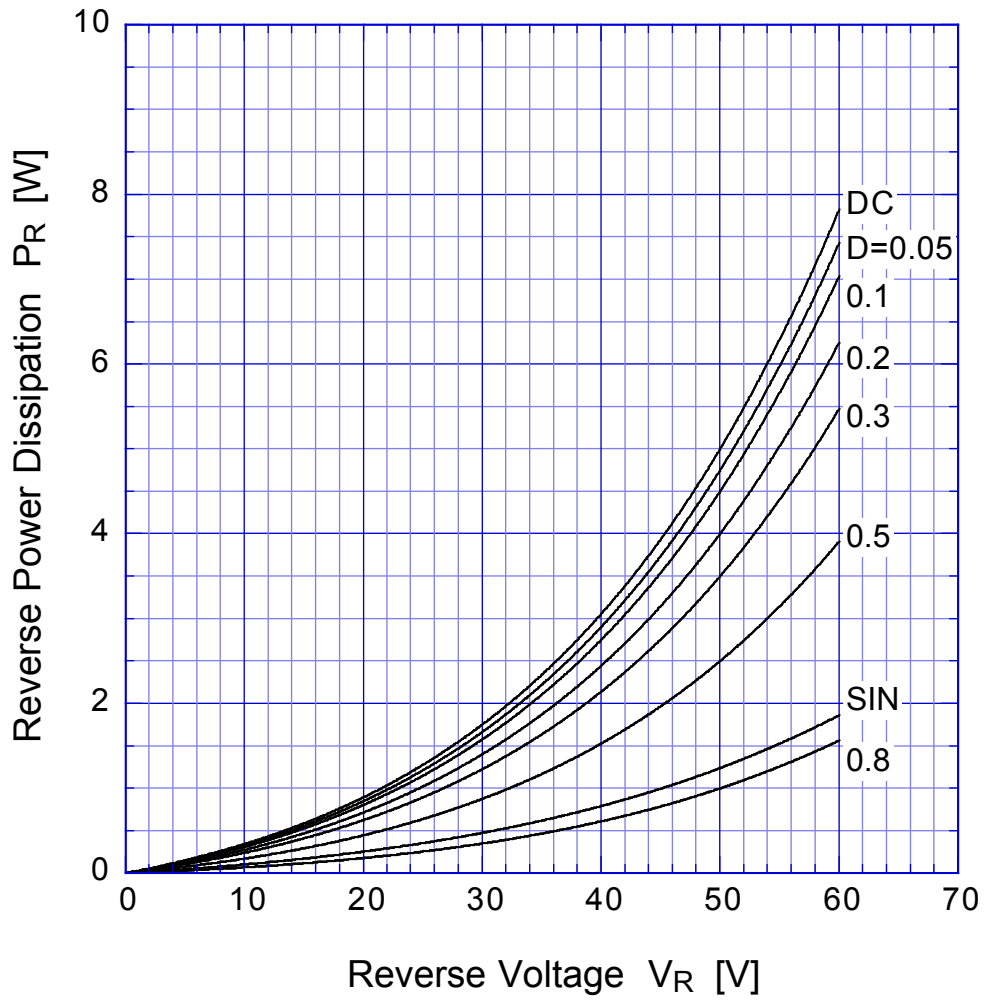
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Reverse Current

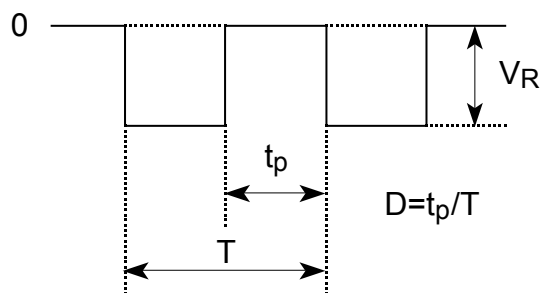


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Reverse Power Dissipation

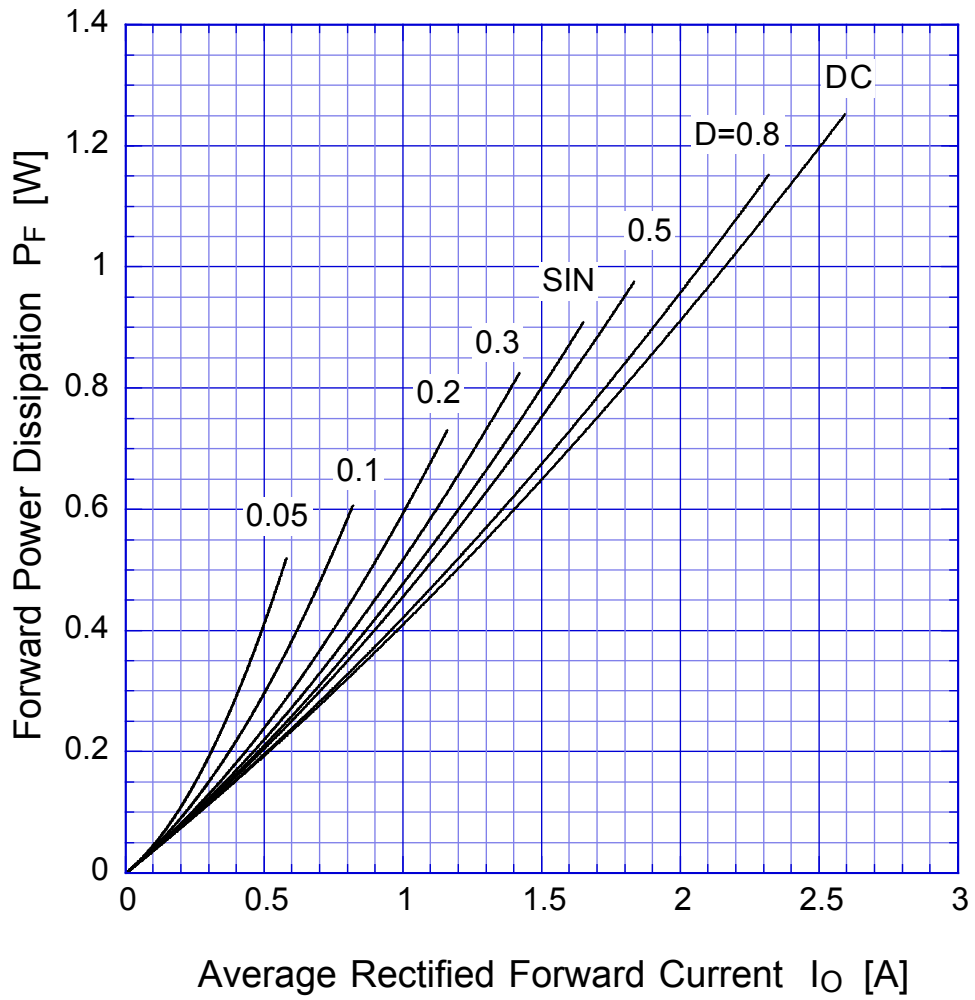


$T_j = 150^\circ\text{C}$

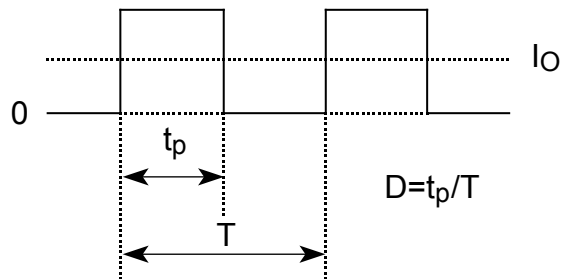


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Forward Power Dissipation

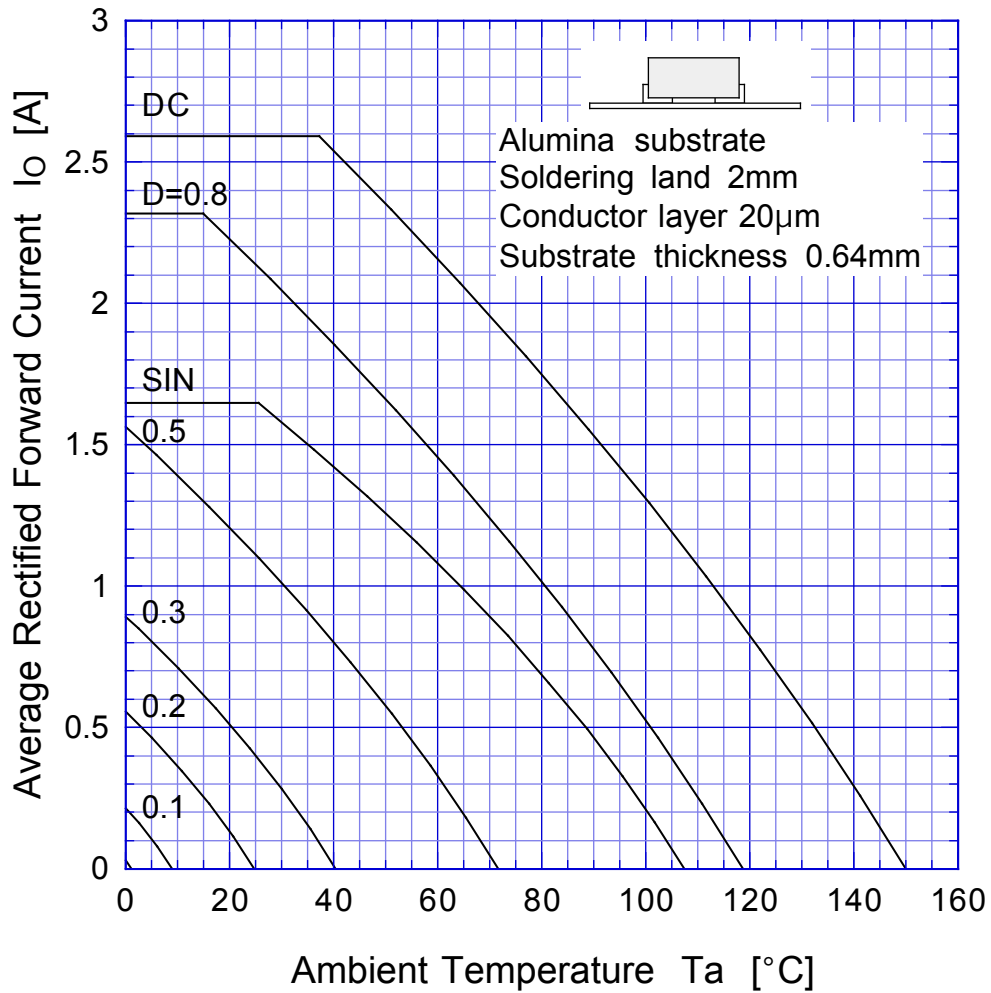


$T_j = 150^\circ\text{C}$

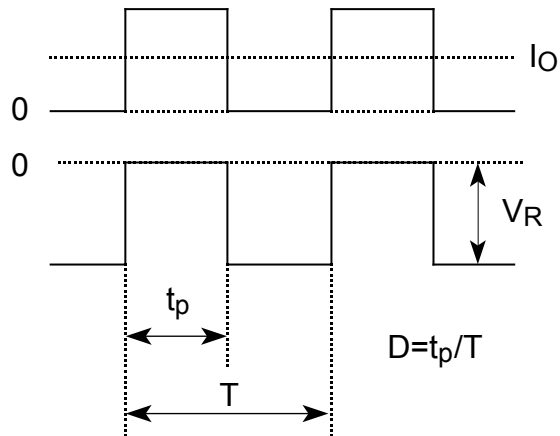


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Derating Curve

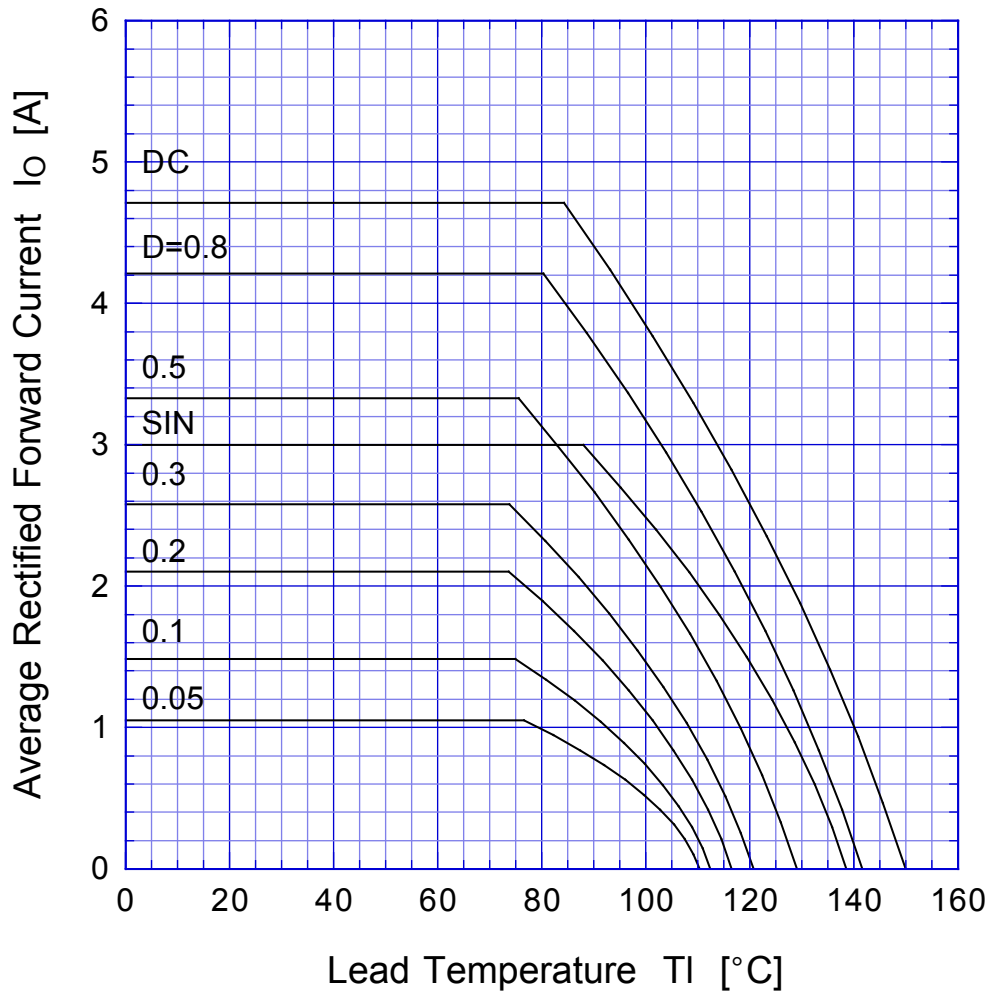


$V_R = 30V$

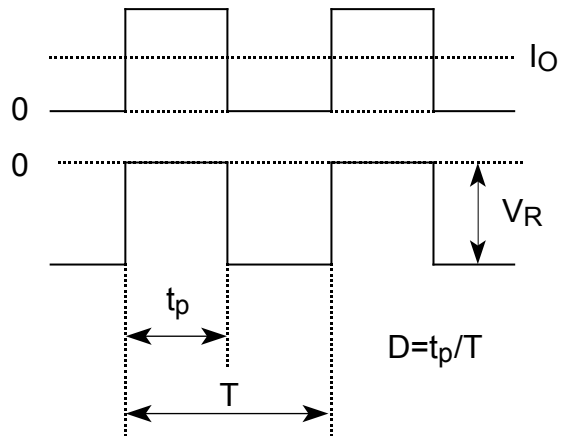


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Derating Curve

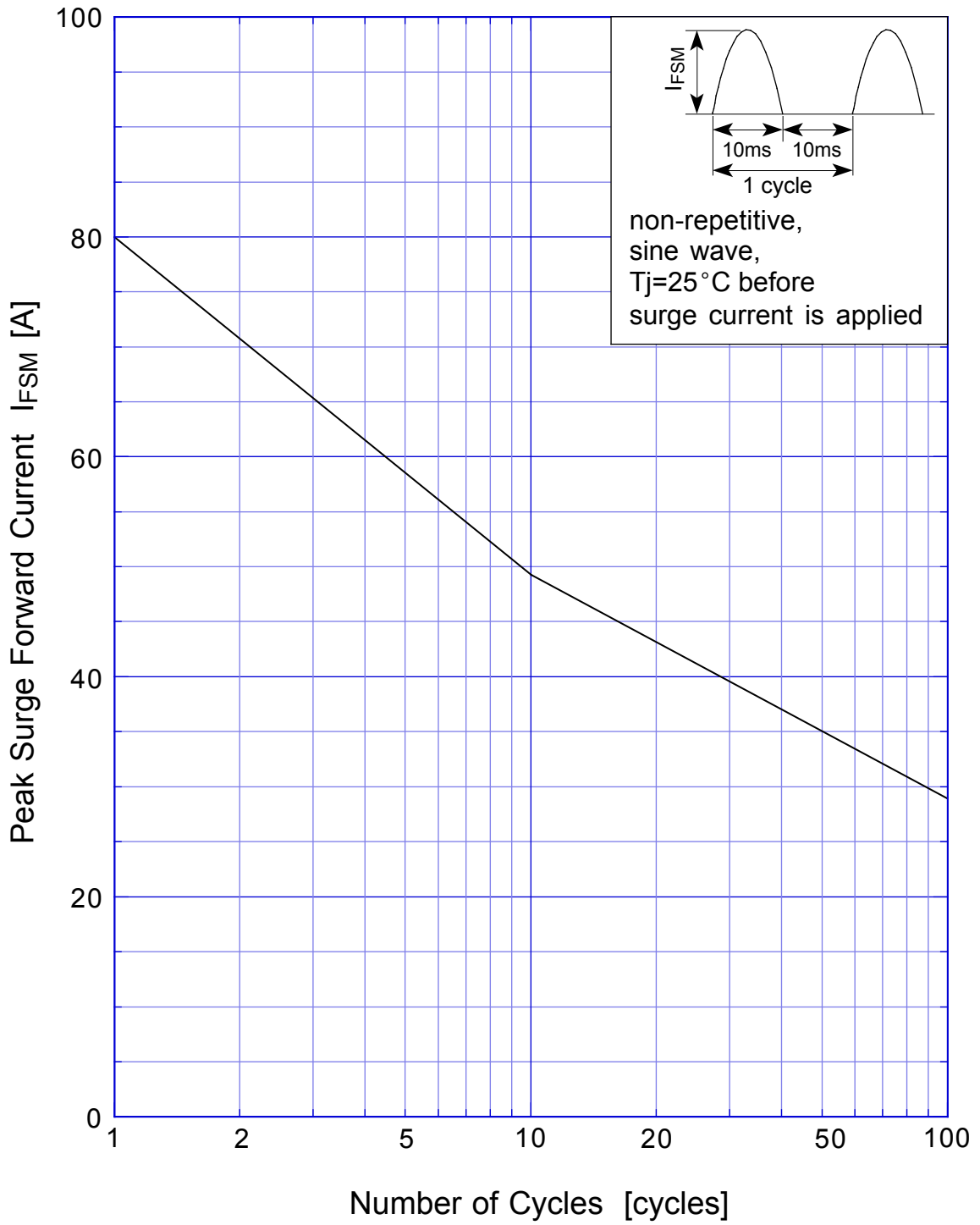


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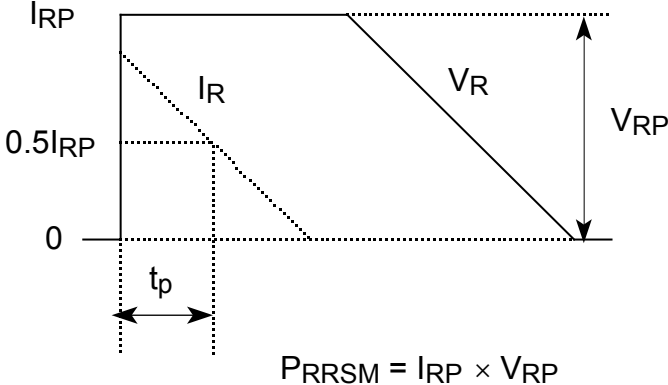
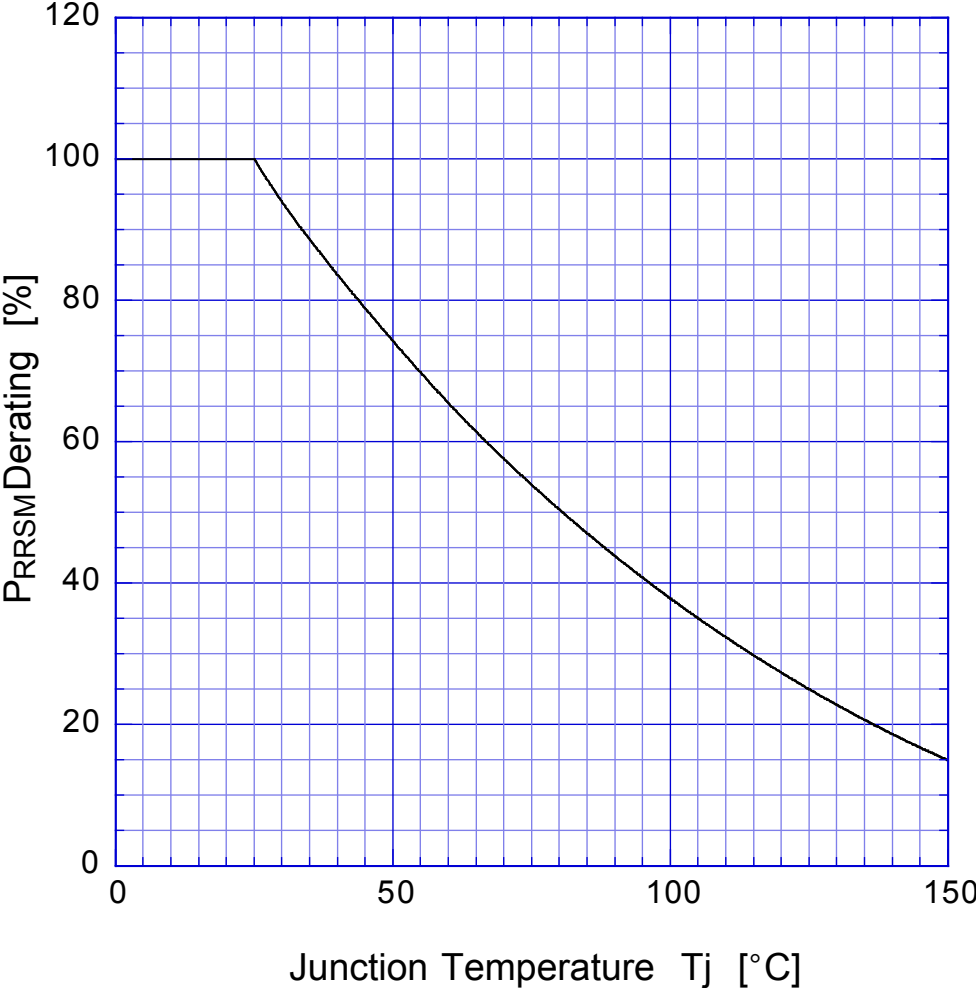


D3FS6

Peak Surge Forward Capability



SBD Repetitive Surge Reverse Power Derating Curve



SBD

Repetitive Surge Reverse Power Capability

