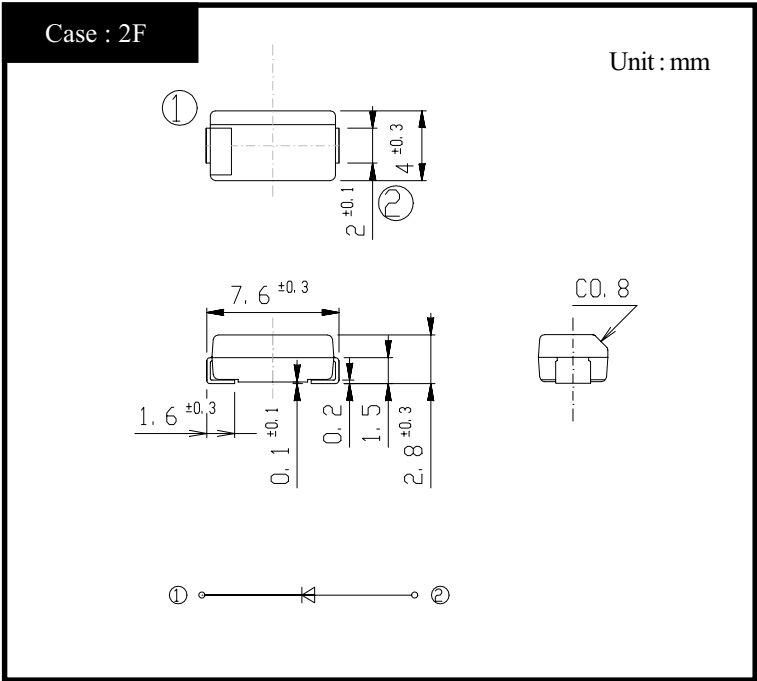


D3FS6

60V 3A

OUTLINE DIMENSIONS



RATINGS

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

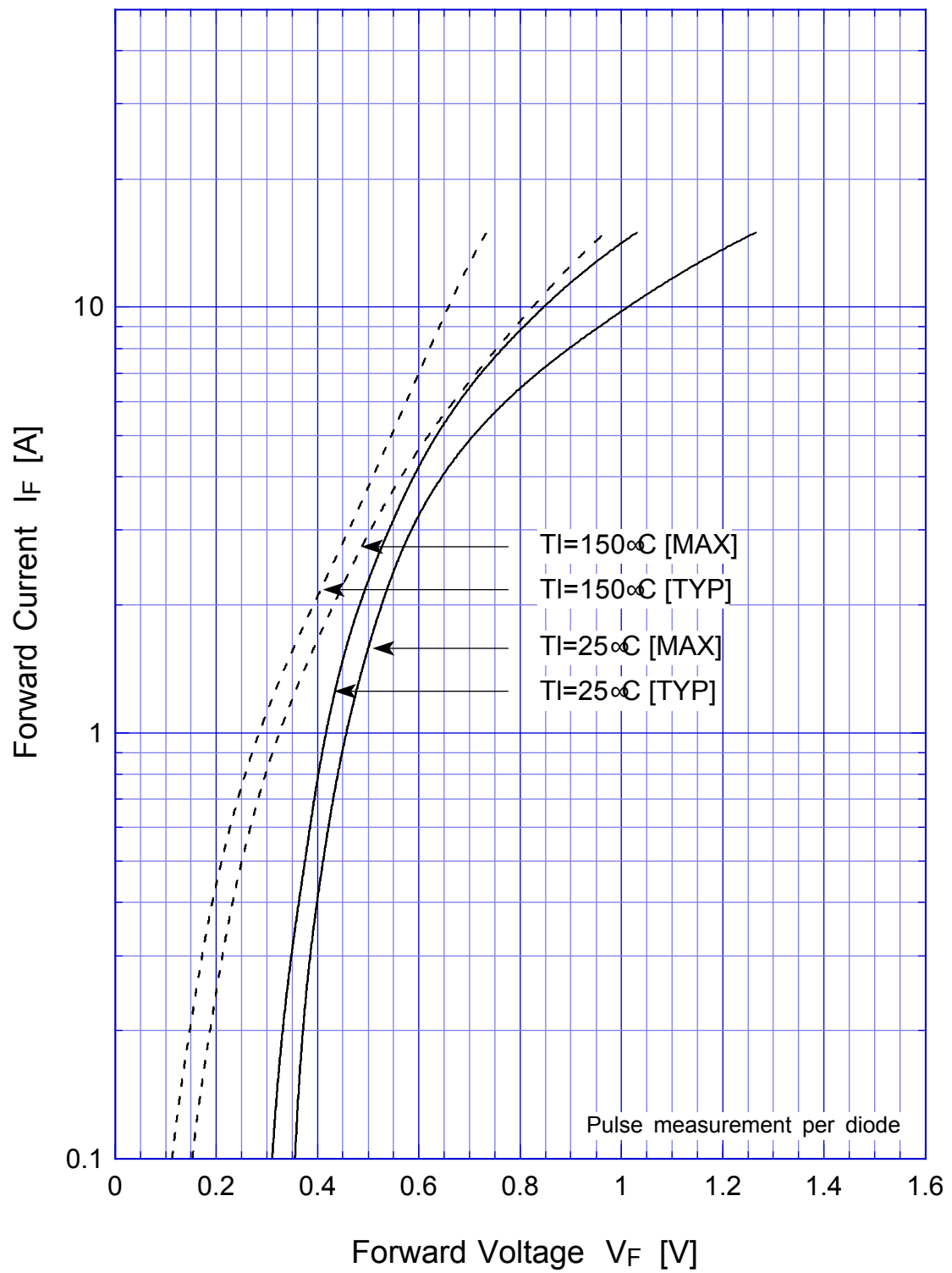
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	T stg		-55~150	°C
Operating Junction Temperature	T j		150	°C
Peake Reverse Voltage	V RM		60	V
Repetitive Peak Surge Reverse Voltage	V RRSM	Pulse width 0.5ms, duty 1/40	65	V
Average Rectified Forward Current	I O	50Hz sine wave, R-load Ta=25°C On alumina substrate	1.65	A
		50Hz sine wave, R-load Tl=87°C	3.0	
Peak Surge Forward Current	I FSM	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C	80	A
Repetitive Peak Surge Reverse Power	P RRSM	Pulse width 10 μ s, Tj=25°C	330	W

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

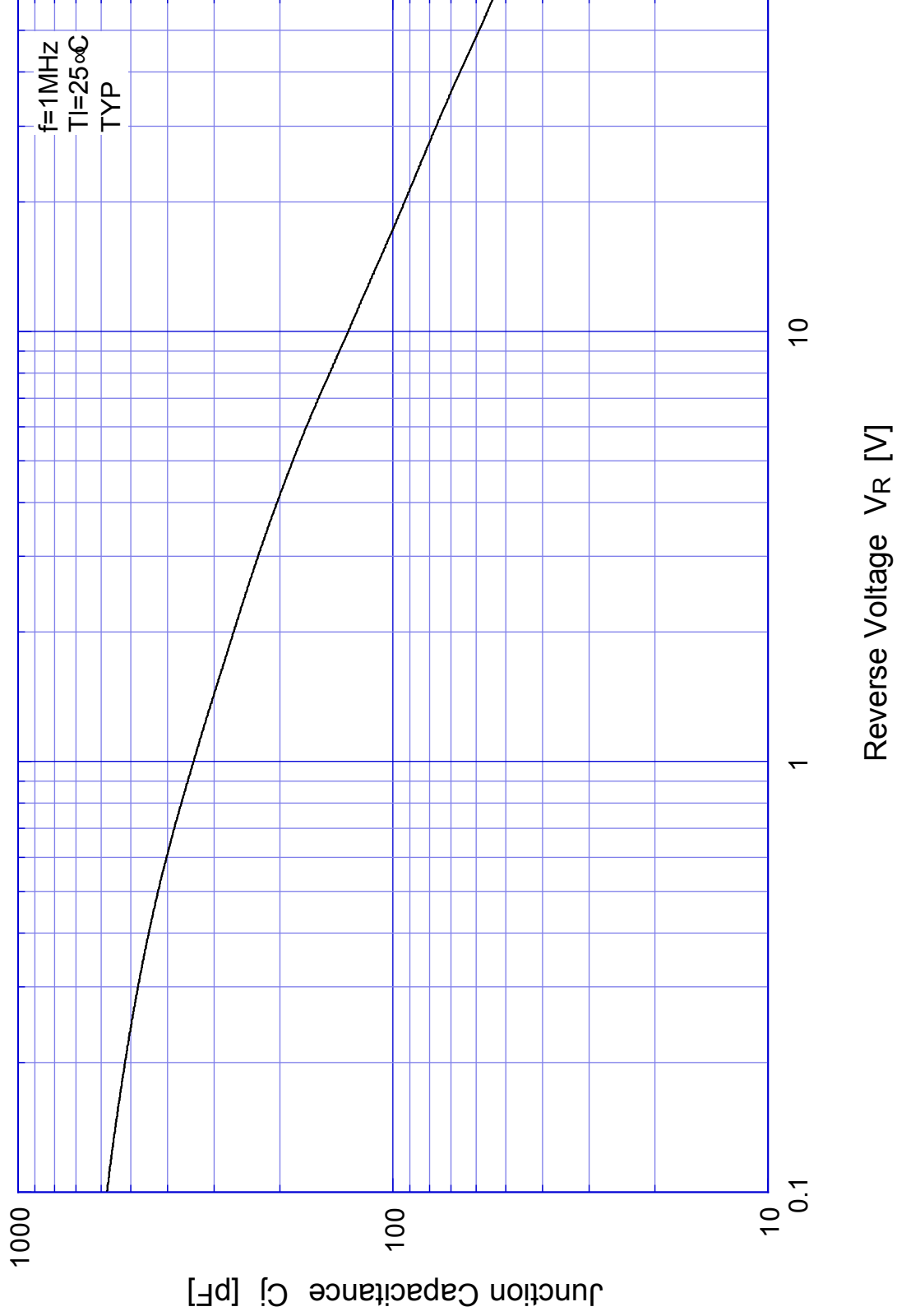
Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V F	I F=3A, Pulse measurement	Max.0.58	V
Reverse Current	I R	V R=V RM, Pulse measurement	Max.2.5	mA
Junction Capacitance	C j	f=1MHz, V R=10V	Typ.130	pF
Thermal Resistance	θ j l	junction to lead	Max.24	°C/W
	θ j a	junction to ambient On alumina substrate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

D3FS6

Forward Voltage

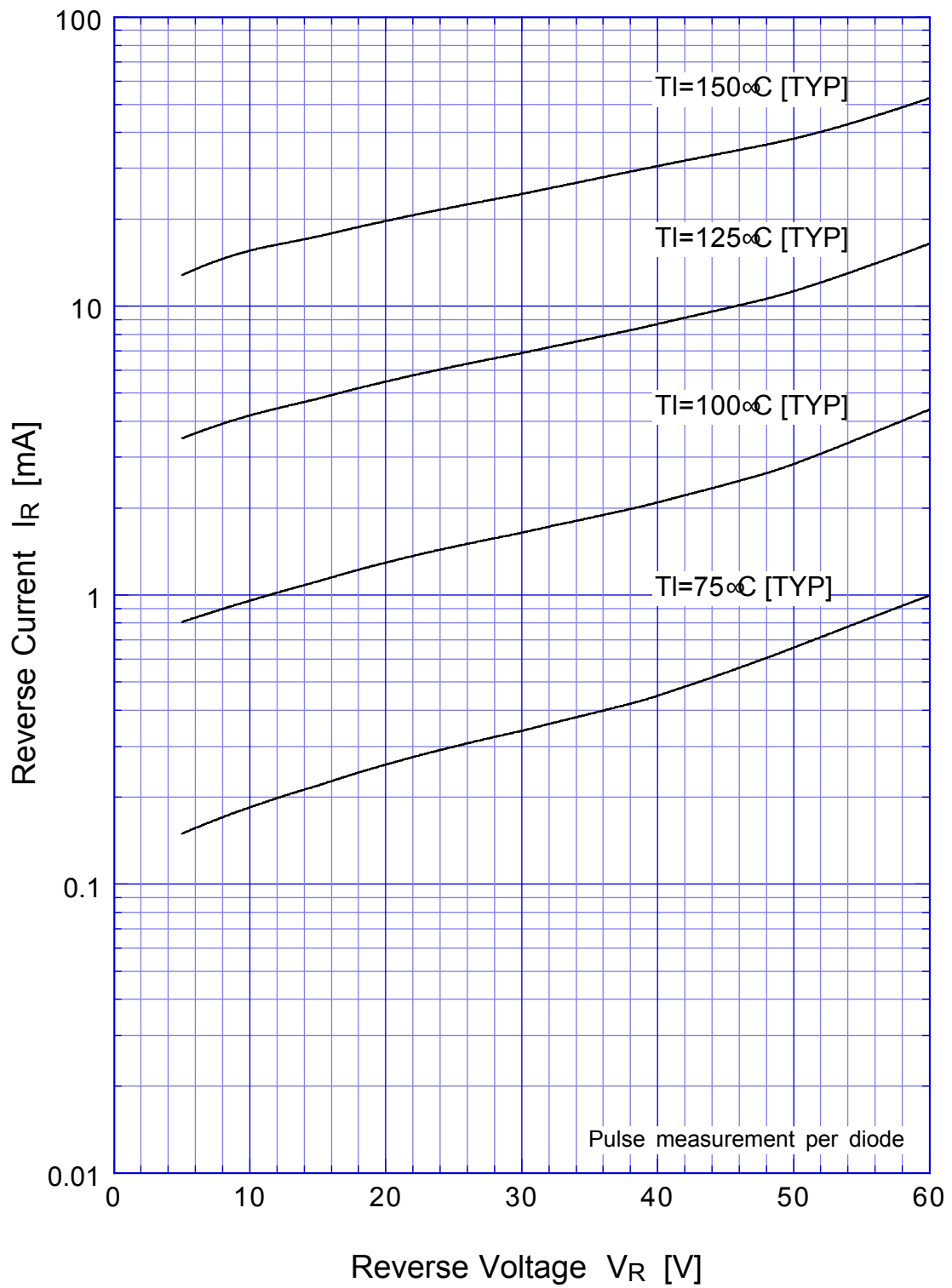


D3FS6 Junction Capacitance



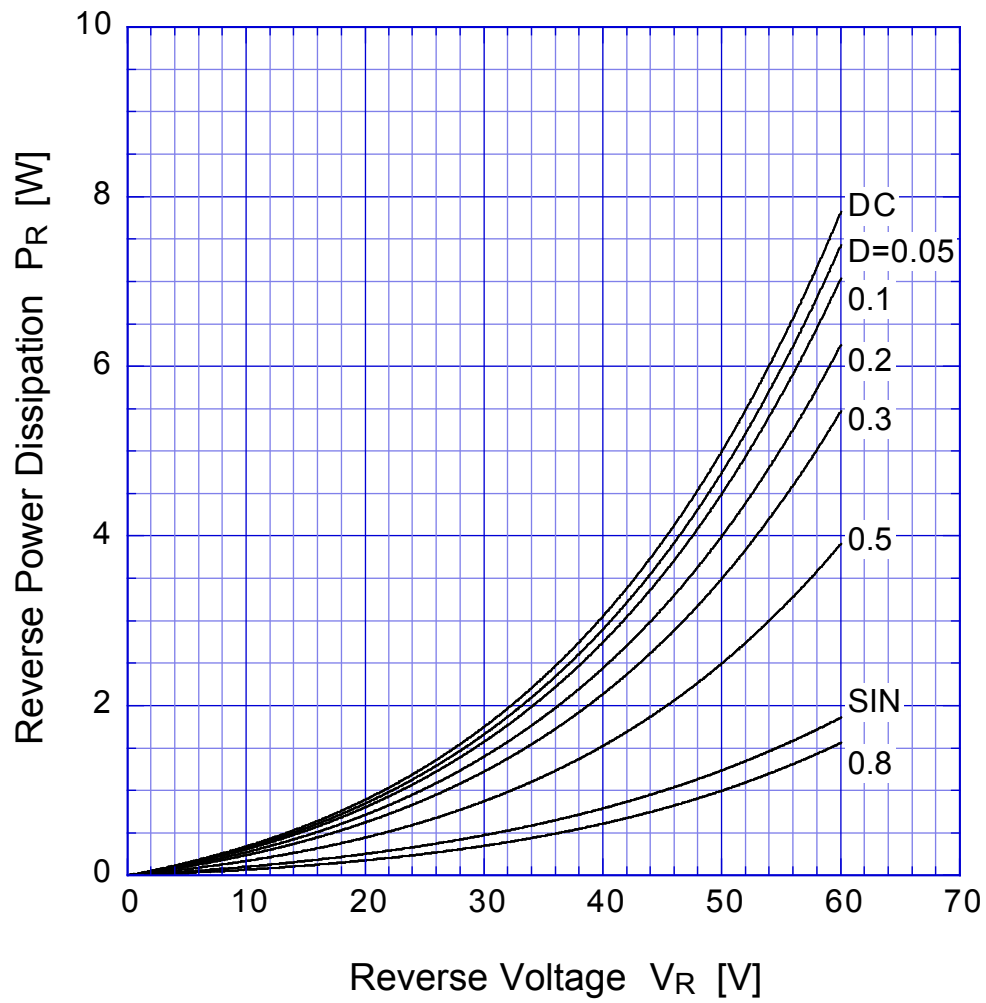
D3FS6

Reverse Current

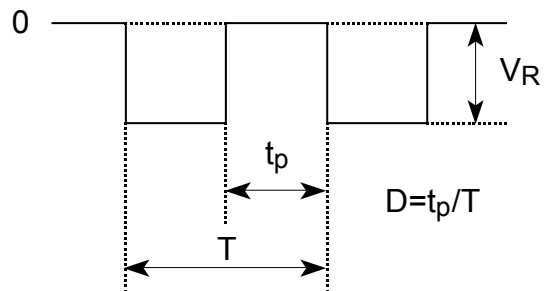


D3FS6

Reverse Power Dissipation

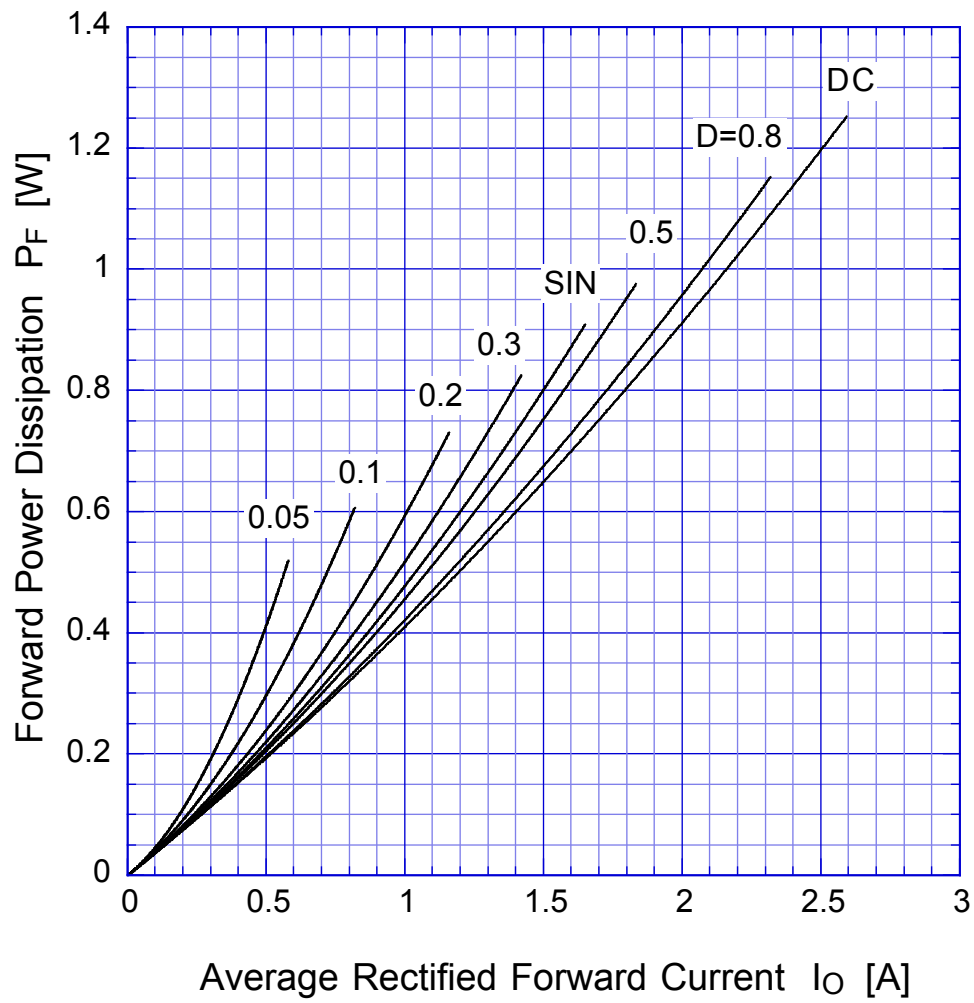


$T_j = 150^\circ\text{C}$

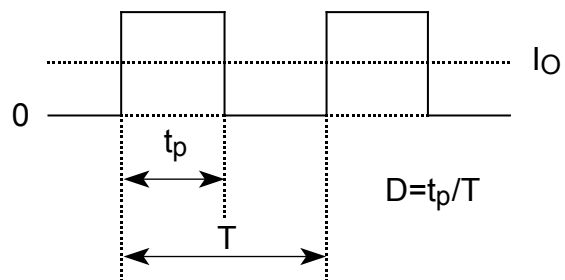


D3FS6

Forward Power Dissipation

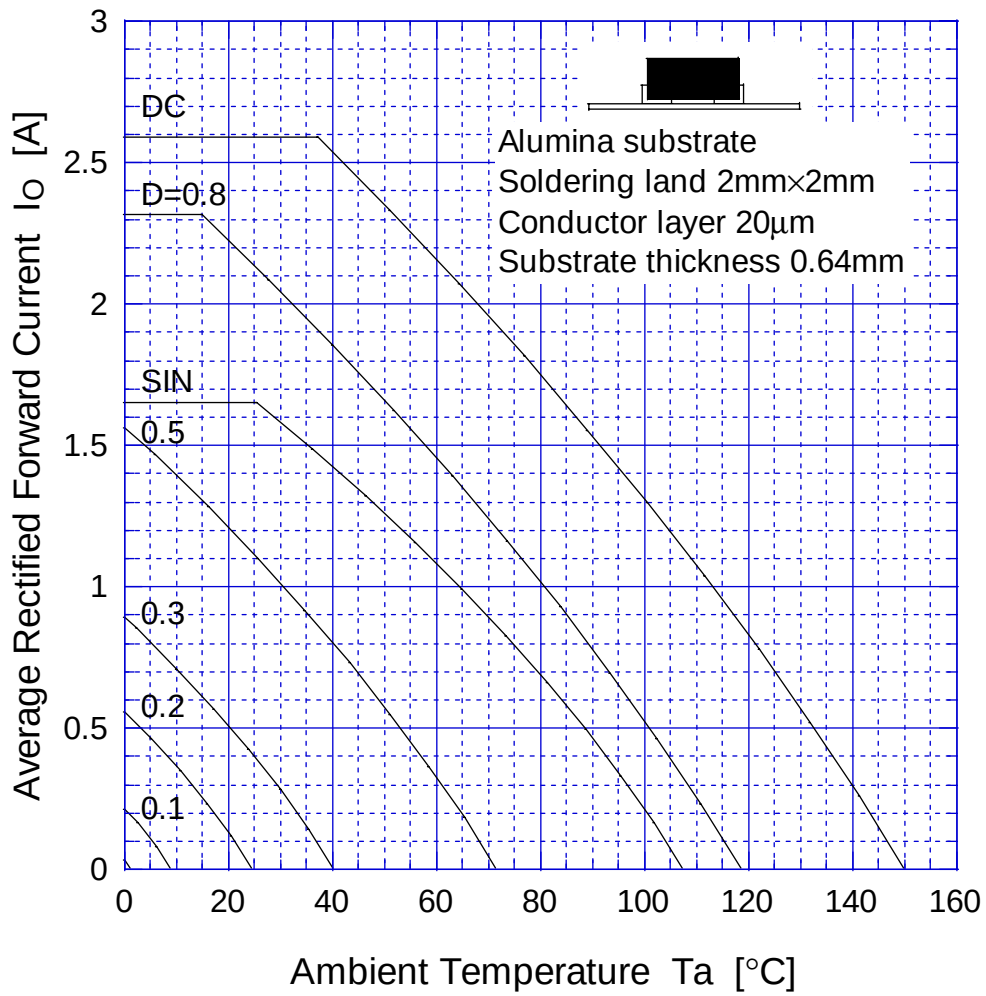


$T_j = 150^\circ\text{C}$

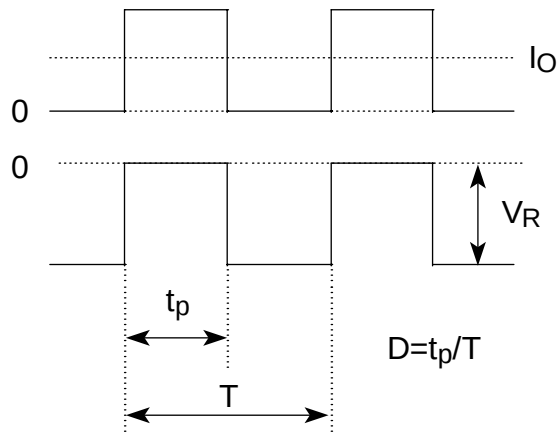


D3FS6

Derating Curve

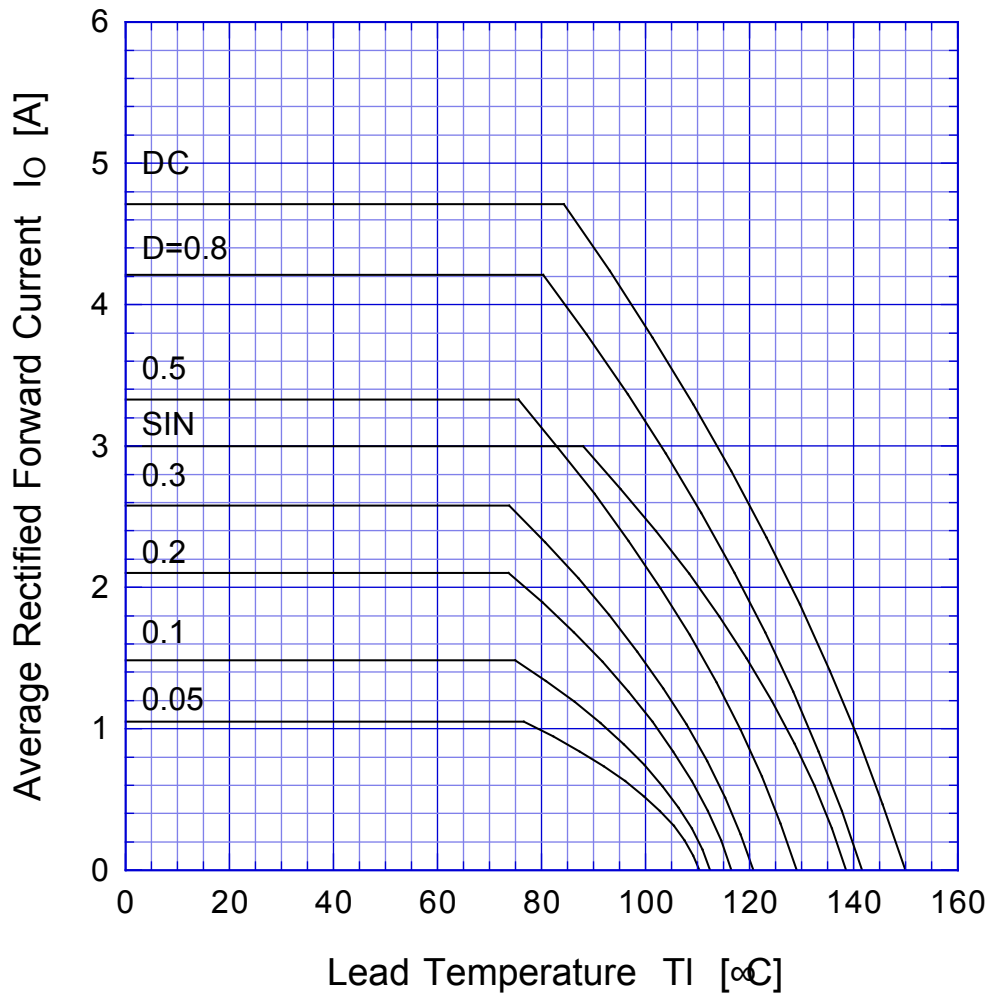


$V_R = 30V$

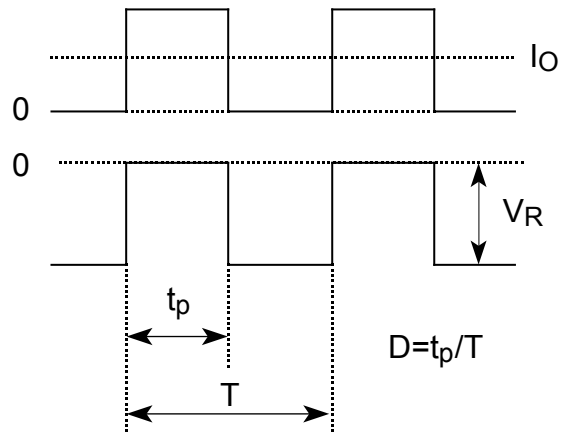


D3FS6

Derating Curve

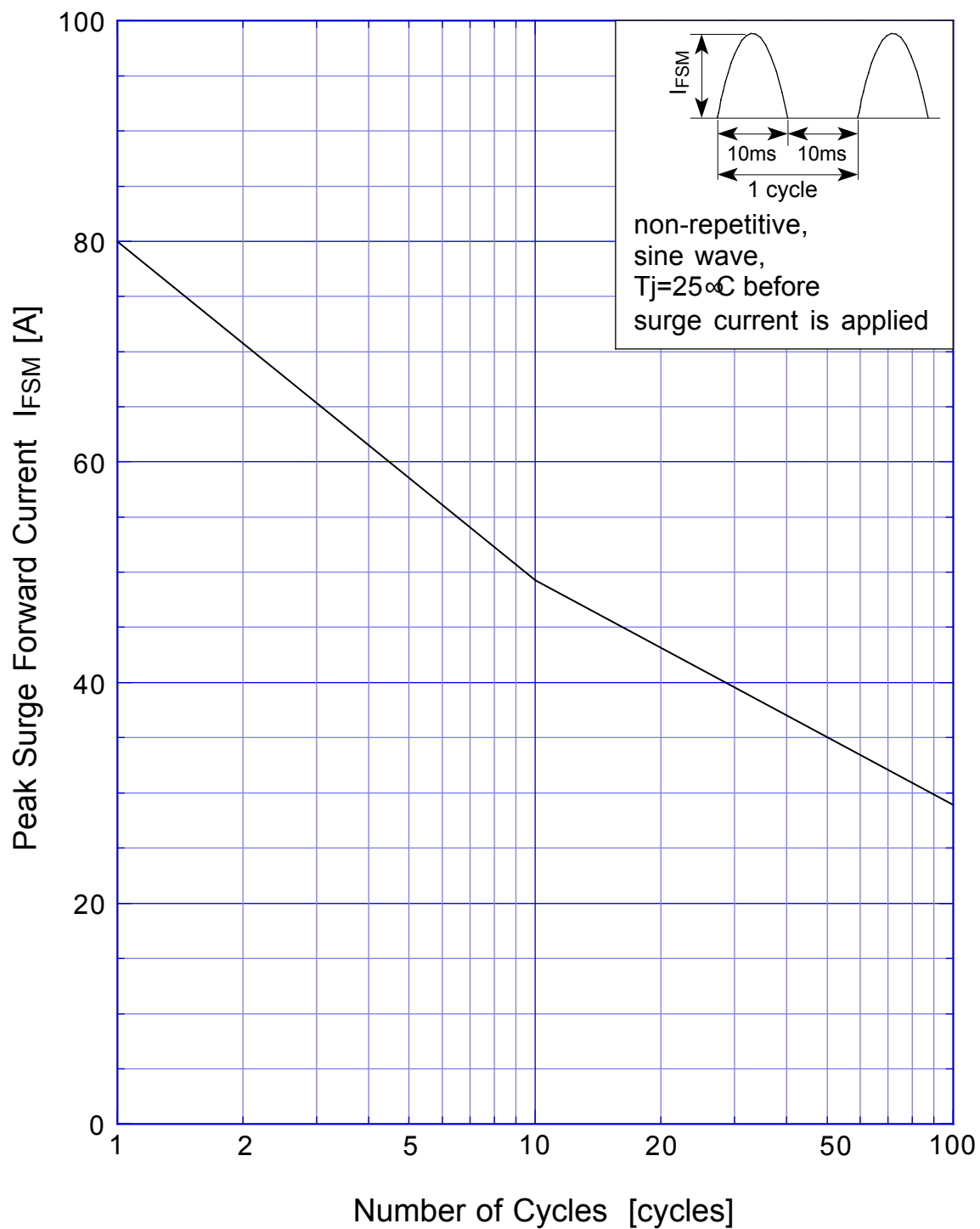


$V_R = 30V$



D3FS6

Peak Surge Forward Capability



SBD Repetitive Surge Reverse Power Derating Curve

