SHINDENGEN

Schottky Rectifiers (SBD)

Single

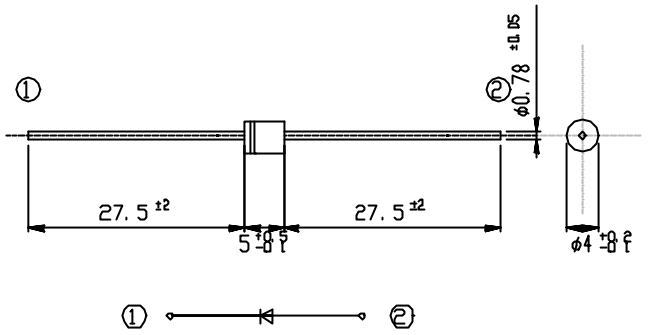
D2S6M

60V 2A

OUTLINE DIMENSIONS

Case : AX078

Unit : mm



FEATURES

- Tj150°C
- PRRSM avalanche guaranteed
- 0.8φ lead

APPLICATION

- Switching power supply
- DC/DC converter
- Home Appliances, Office Equipment
- Telecommunication

RATINGS

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

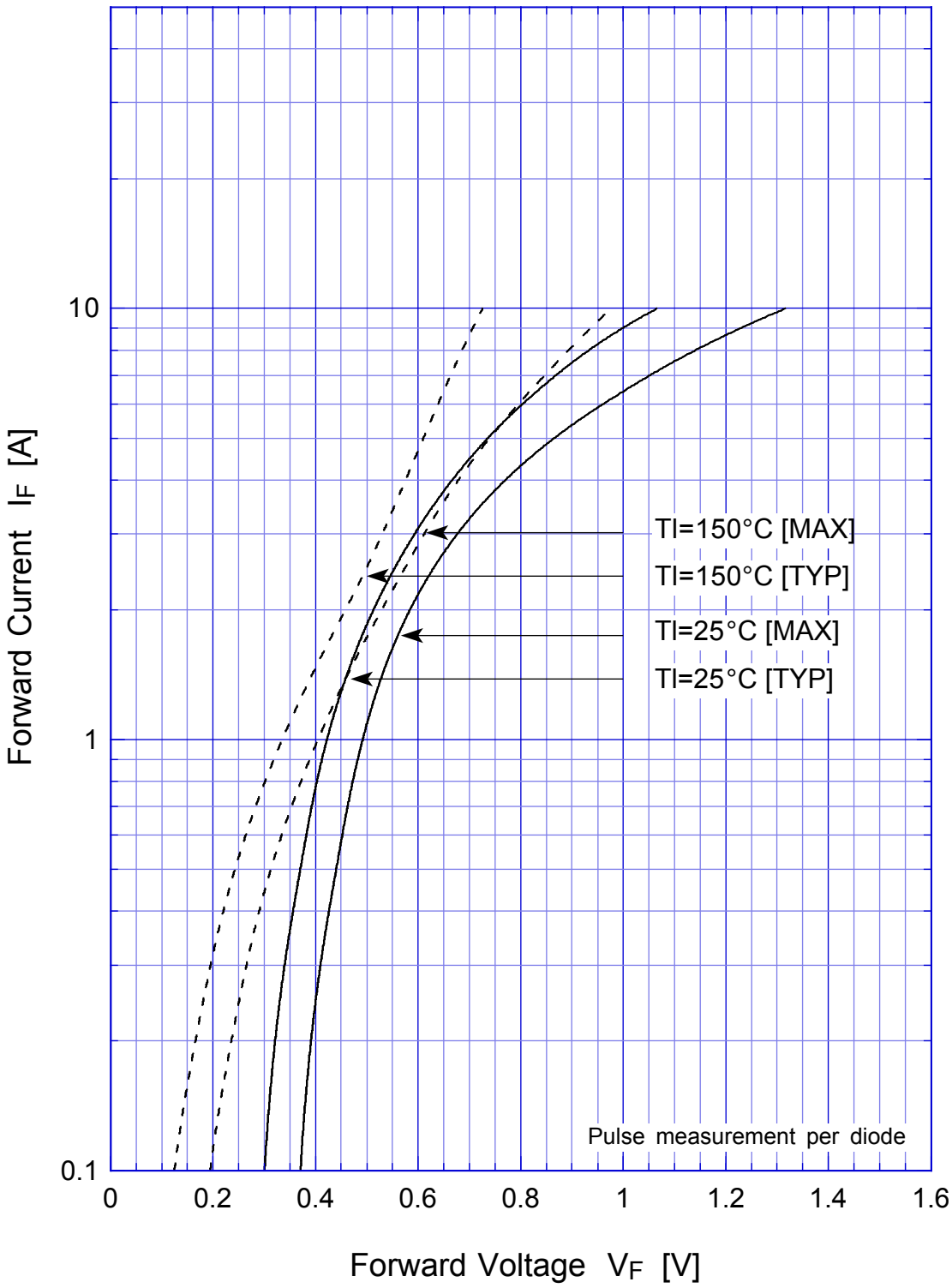
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-40～150	°C
Operating Junction Temperature	Tj		150	°C
Maximum Reverse Voltage	VRM		60	V
Repetitive Peak Surge Reverse Voltage	VRRSM	Pulse width 0.5ms, duty 1/40	65	V
Average Rectified Forward Current	Io	50Hz sine wave, R-load With heatsink Tl=119°C	2.0	A
		50Hz sine wave, R-load Without heatsink Ta=25°C	1.2	
Peak Surge Forward Current	IFSM	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C	60	A
Repetitive Peak Surge Reverse Power	PRRSM	Pulse width 10μs, Tj=25°C	330	W

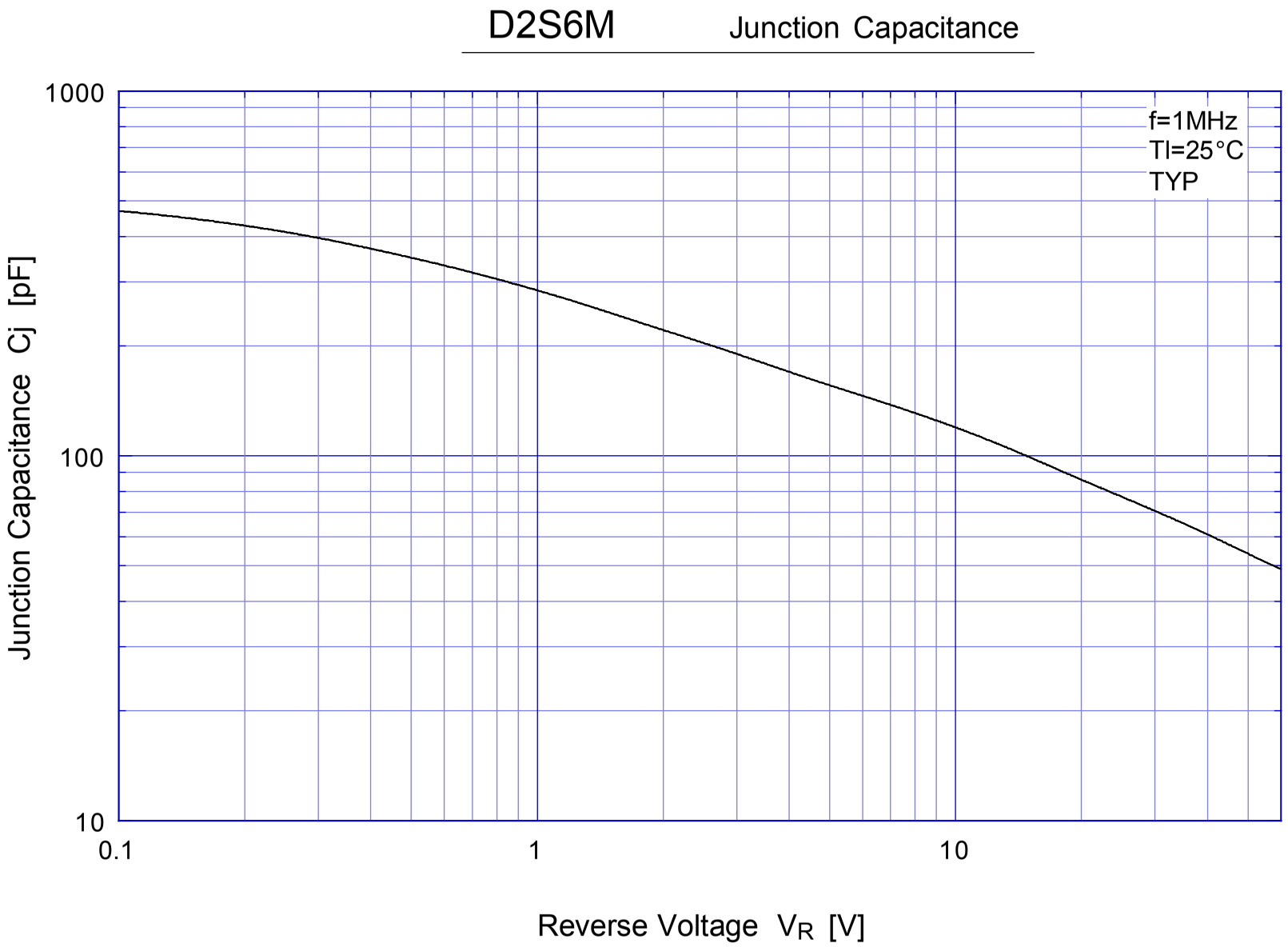
●Electrical Characteristics (If not specified Tl=25°C)

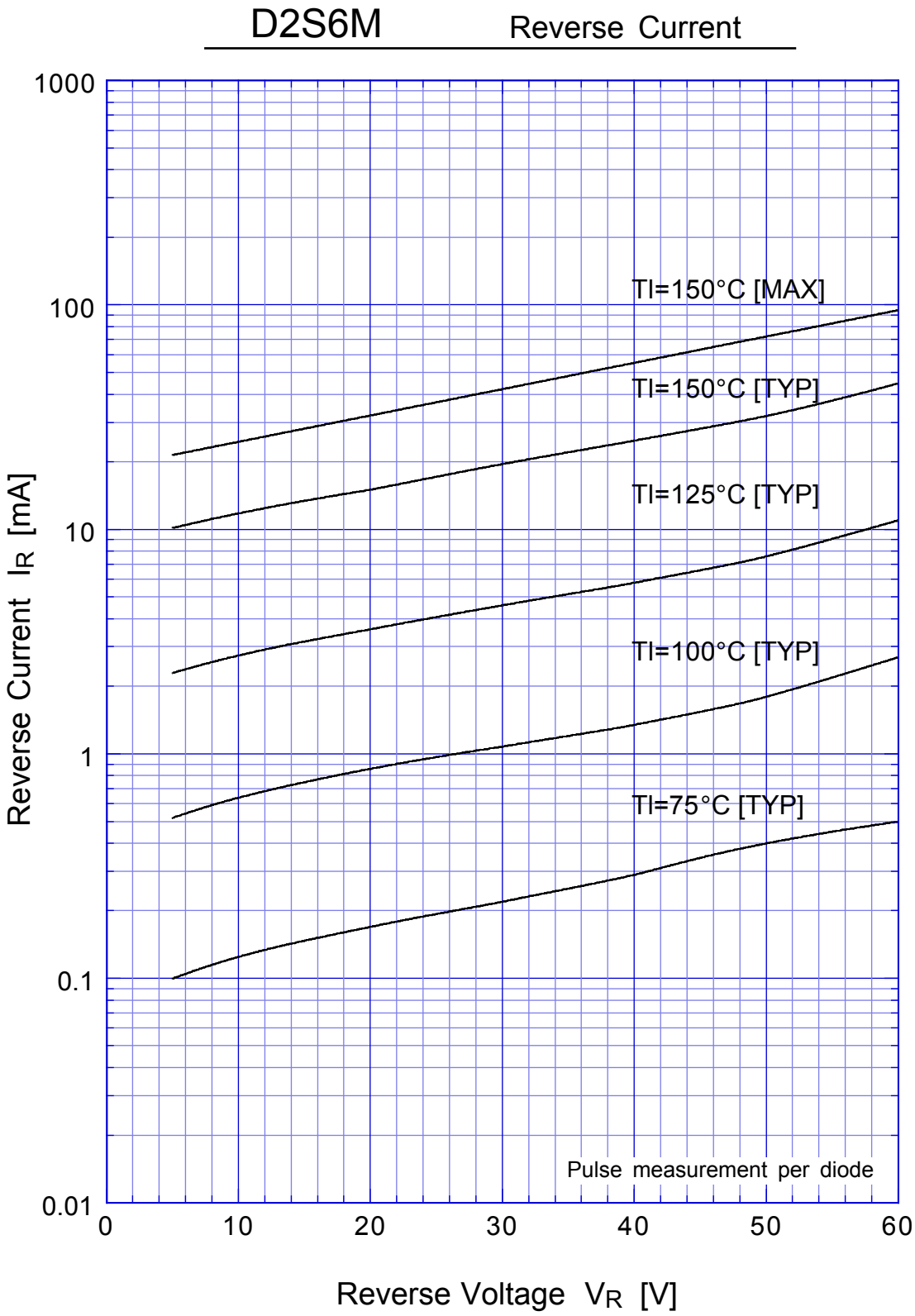
Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	VF	IF=2A, Pulse measurement	Max.0.58	V
Reverse Current	IR	VR=VRM, Pulse measurement	Max.2	mA
Junction Capacitance	Cj	f=1MHz, VR=10V	Typ.120	pF
Thermal Resistance	θ jl	junction to lead	Max.17	°C/W
	θ ja	junction to ambient	Max.105	

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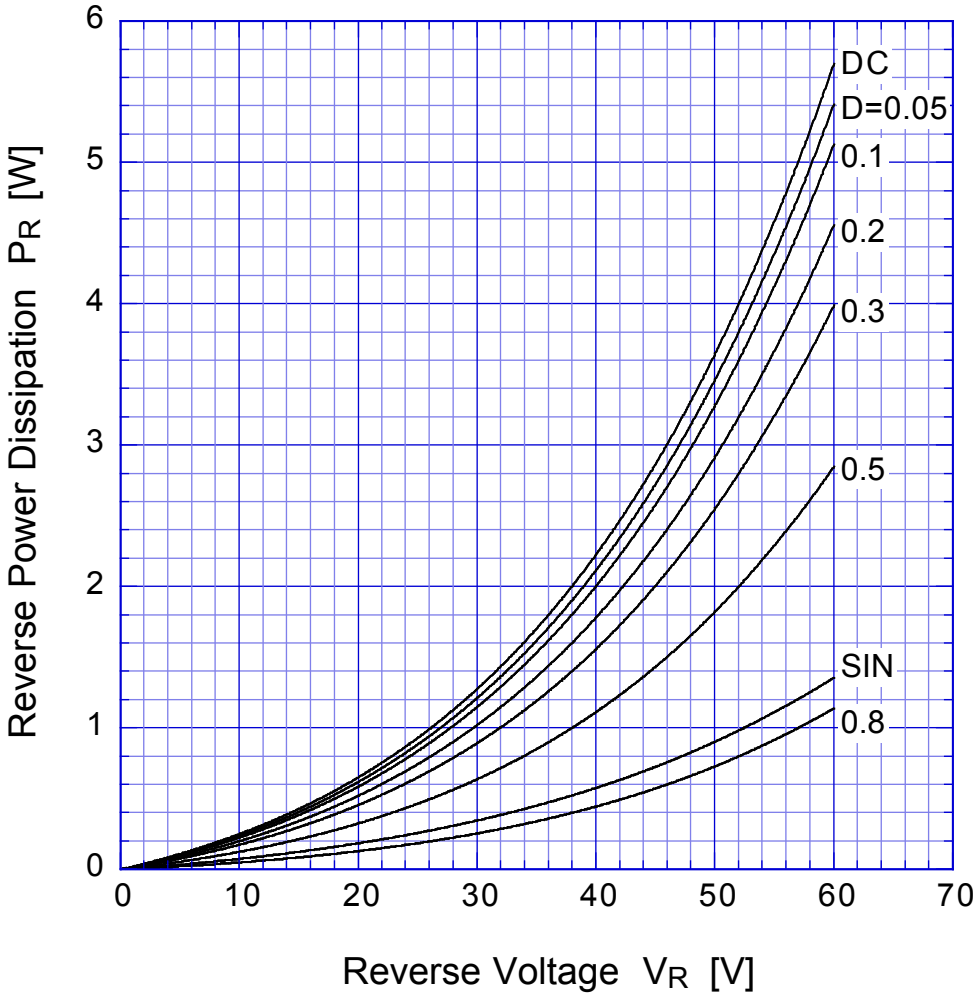
D2S6M Forward Voltage



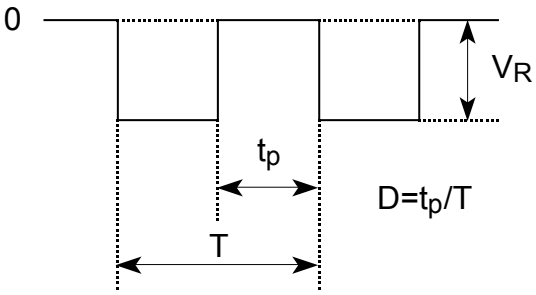

D2S6M
Junction Capacitance
f=1MHz
Tl=25°C
TYP
1000
100
10
0.1
1
10
Junction Capacitance Cj [pF]
Reverse Voltage VR [V]


D2S6M
Reverse Current
1000
100
10
1
0.1
0.01
Reverse Current IR [mA]
TI=150°C [MAX]
TI=150°C [TYP]
TI=125°C [TYP]
TI=100°C [TYP]
TI=75°C [TYP]
Pulse measurement per diode
0
10
20
30
40
50
60
Reverse Voltage VR [V]

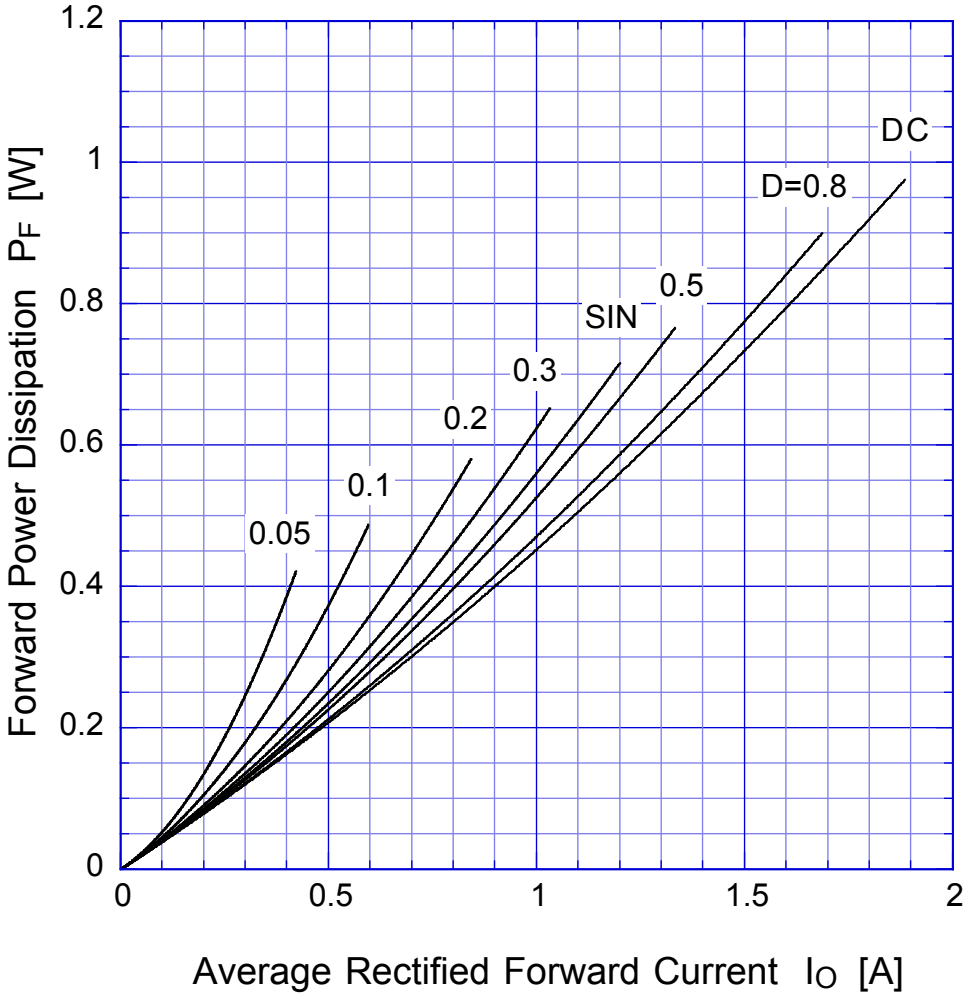
D2S6M Reverse Power Dissipation



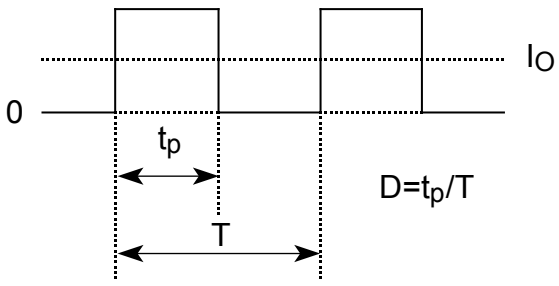
Tj = 150°C



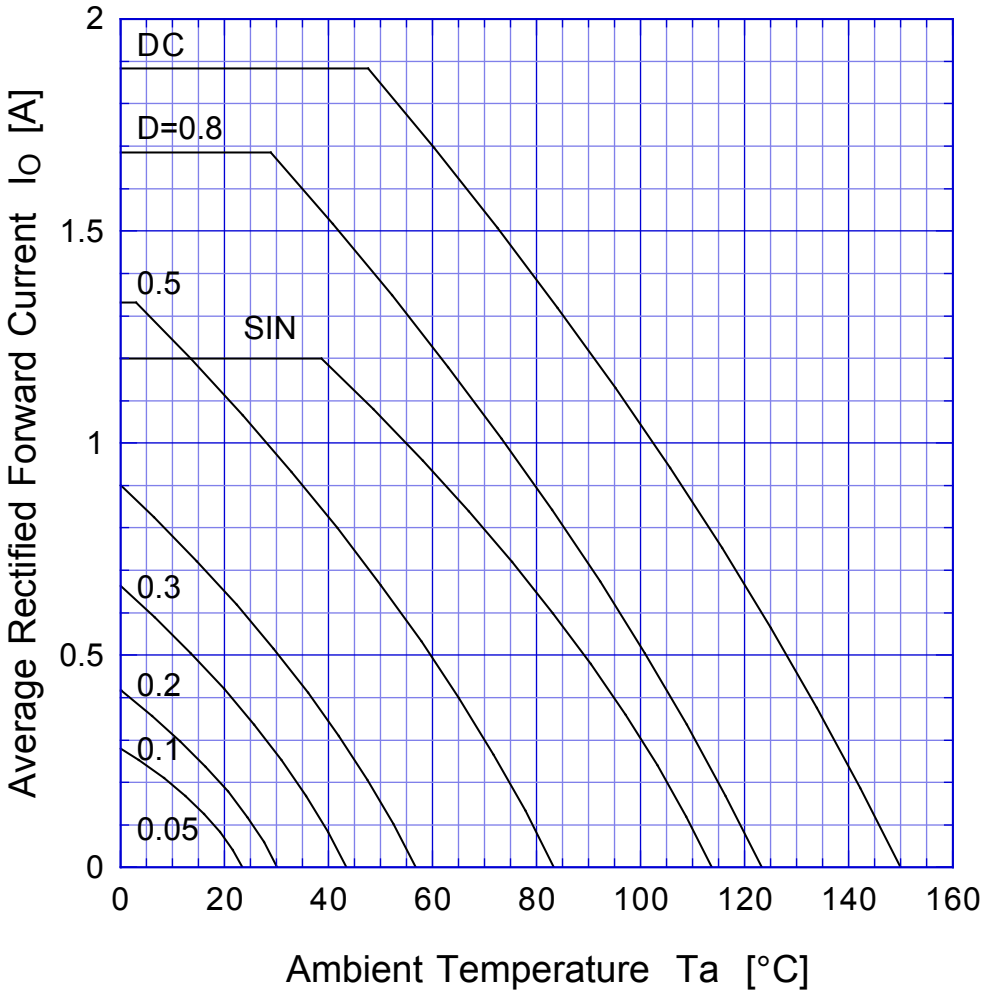
D2S6M Forward Power Dissipation

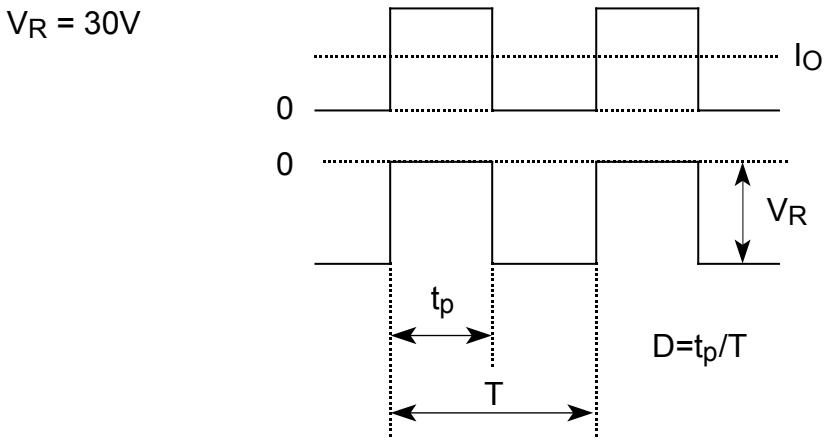


Tj = 150°C

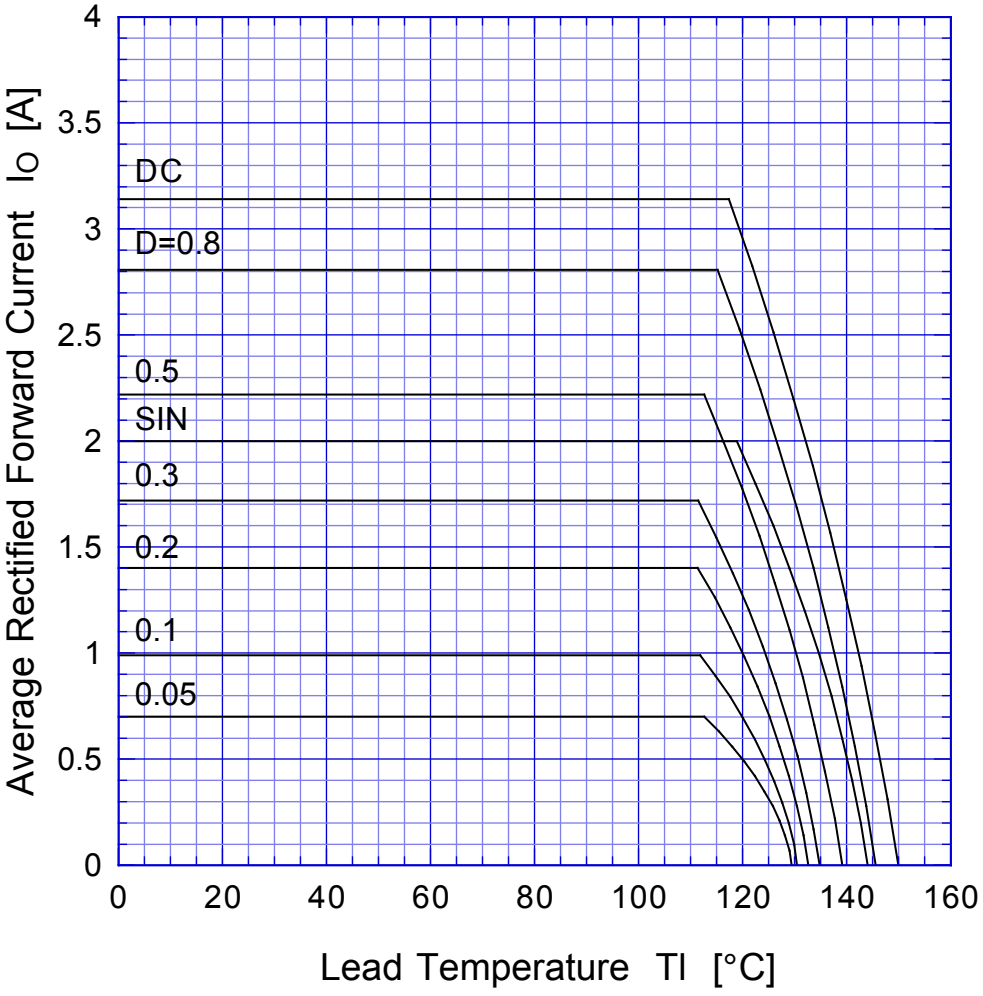


D2S6M Derating Curve

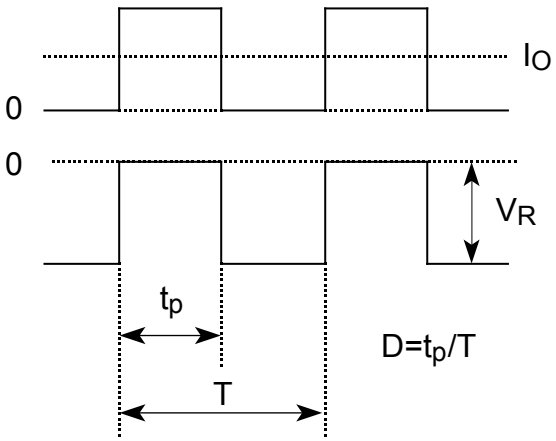




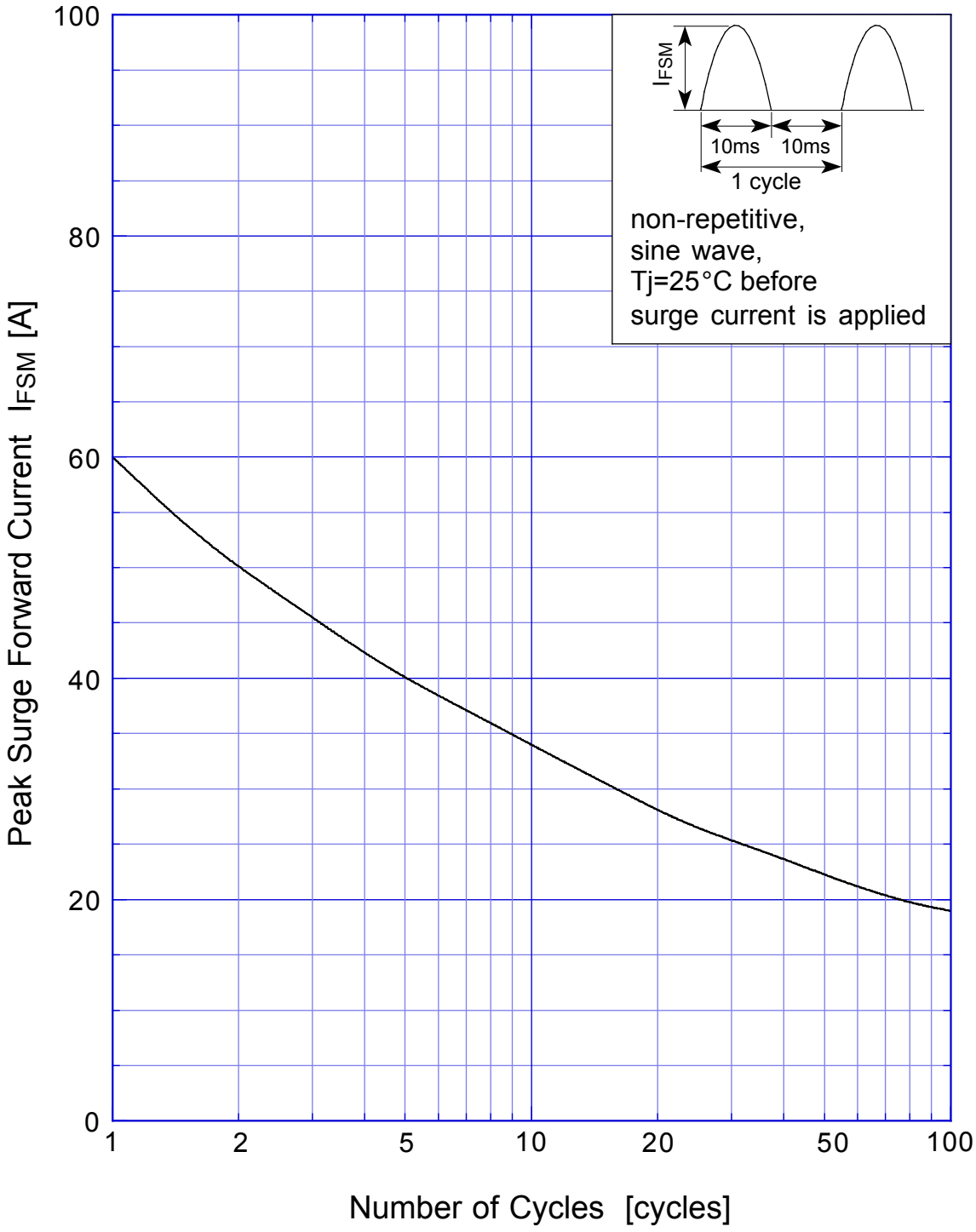
D2S6M Derating Curve



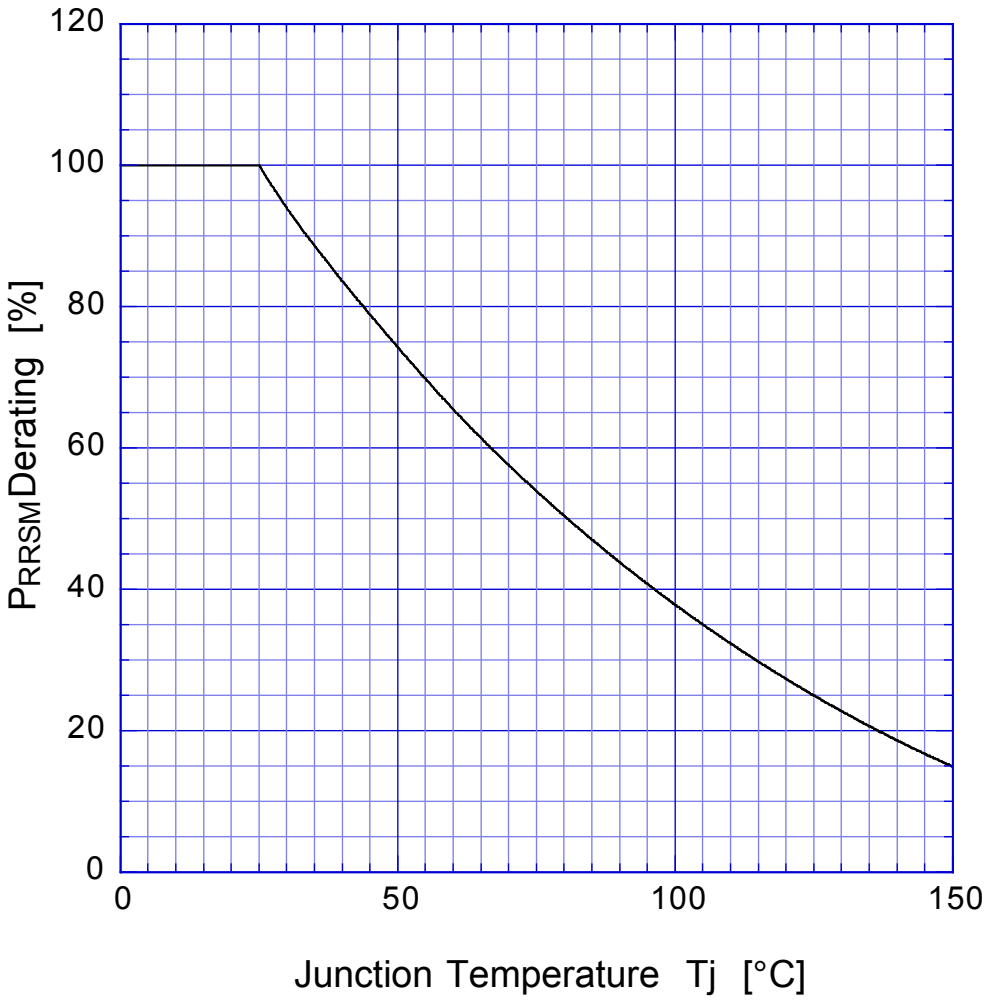
V_R = 30V

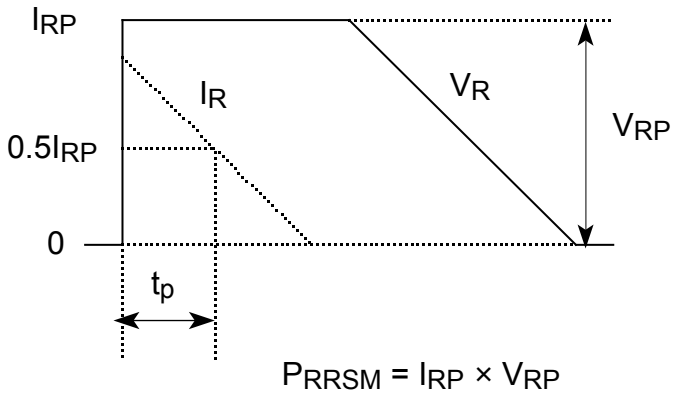


D2S6M Peak Surge Forward Capability



SBD Repetitive Surge Reverse Power Derating Curve





SBD Repetitive Surge Reverse Power Capability

