SHINDENGEN

Schottky Rectifiers (SBD)

Dual

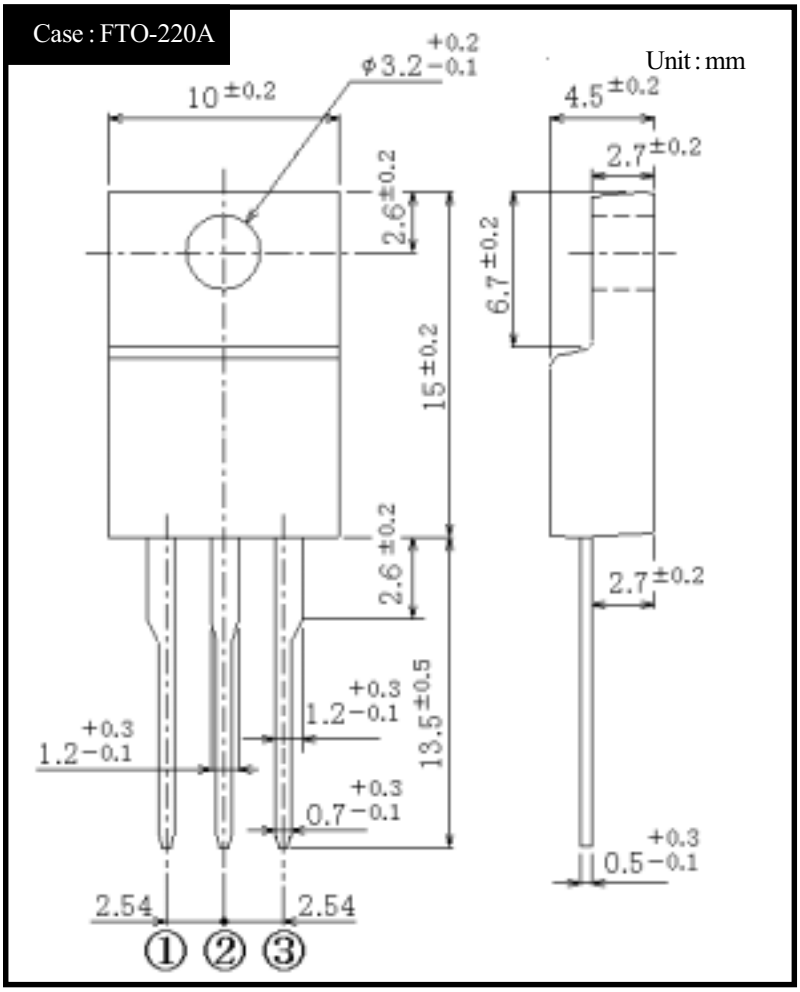
SF30NC15M

150V 30A

OUTLINE DIMENSIONS

Case : FTO-220A

Unit : mm



RATINGS

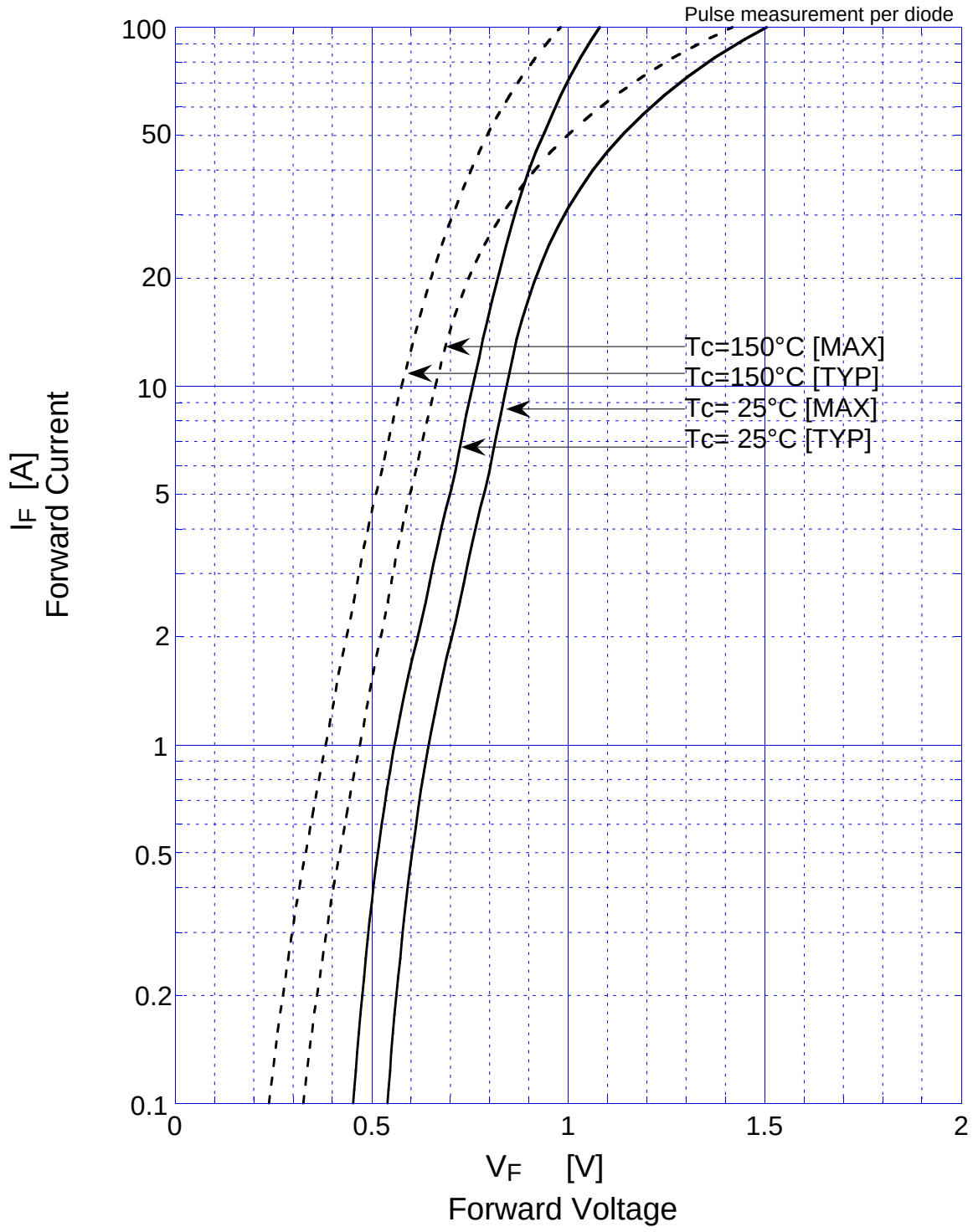
Absolute Maximum Ratings（Tc=25℃ unless otherwise specified）

Item	Symbol	Conditions	Ratings	Units
Storage Temperature	Tstg		-55 to 150	℃
Operating Junction Temperature	Tj		150	℃
Maximum Reverse Voltage	V_{RM}		150	V
Average Rectified Forward Current	Io	50Hz sine wave, Resistance load, Rating for each diode Io/2, Tc=107℃	30	A
Peak Surge Forward Current	I_{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25℃	300	A
Dielectric Strength	Vdis	Terminals to case, AC 1 minute	2	kV
Mounting Torque	TOR	(Recommended torque : 0.3N･m)	0.5	N･m

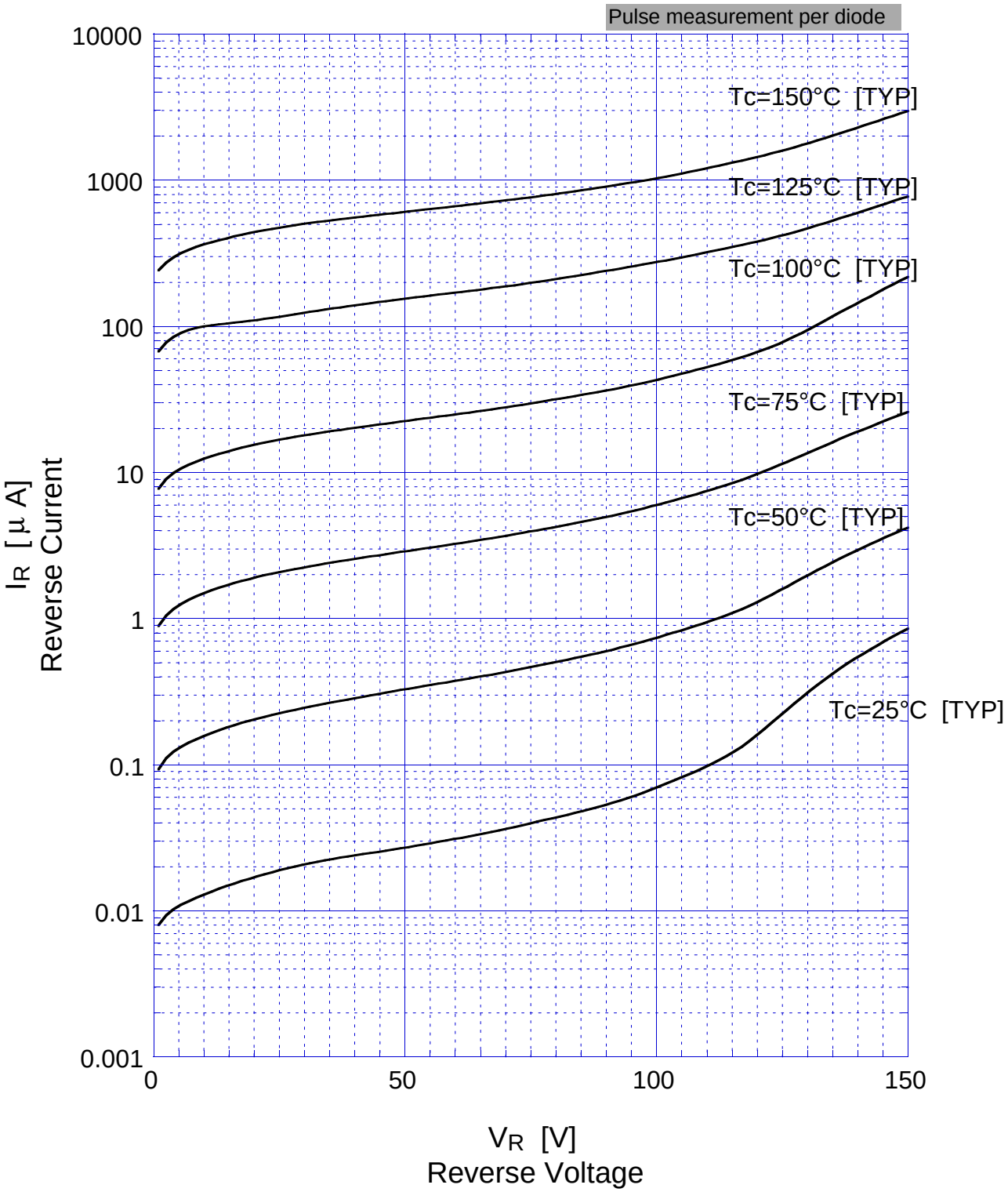
Electrical Characteristics（Tc=25℃ unless otherwise specified）

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V_F	I_F=15A, Pulse measurement, Rating of per diode	Max. 0.88	V
Reverse Current	I_R	V_R=150V, Pulse measurement, Rating of per diode	Max. 0.5	mA
Junction Capacitance	Cj	f=1MHz, V_R=10V, Rating of per diode	Typ. 300	pF
Thermal Resistance	θ jc	junction to case	Max. 1.6	℃/W

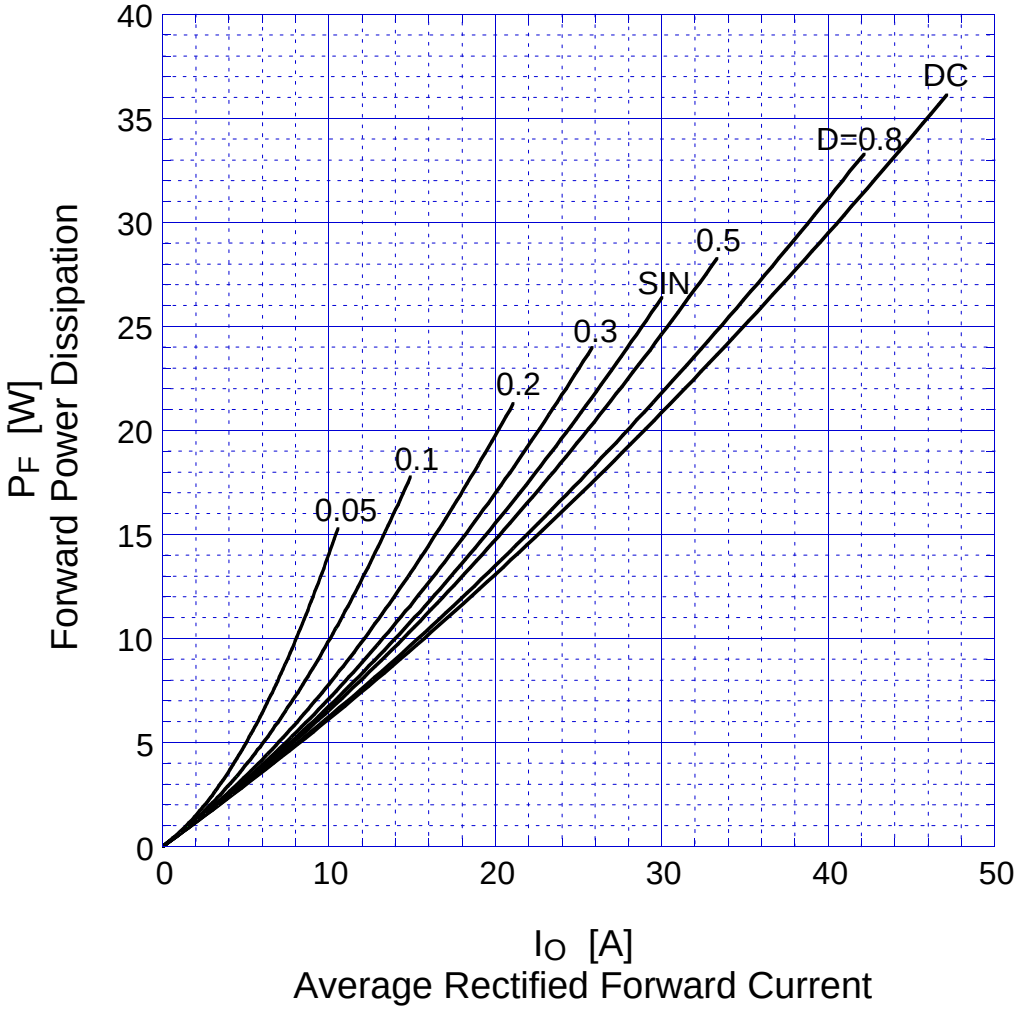
SF30NC15M Forward Voltage



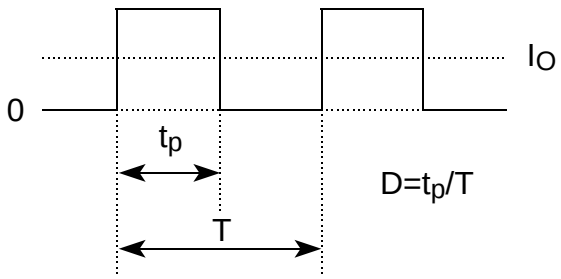
SF30NC15M Reverse Current



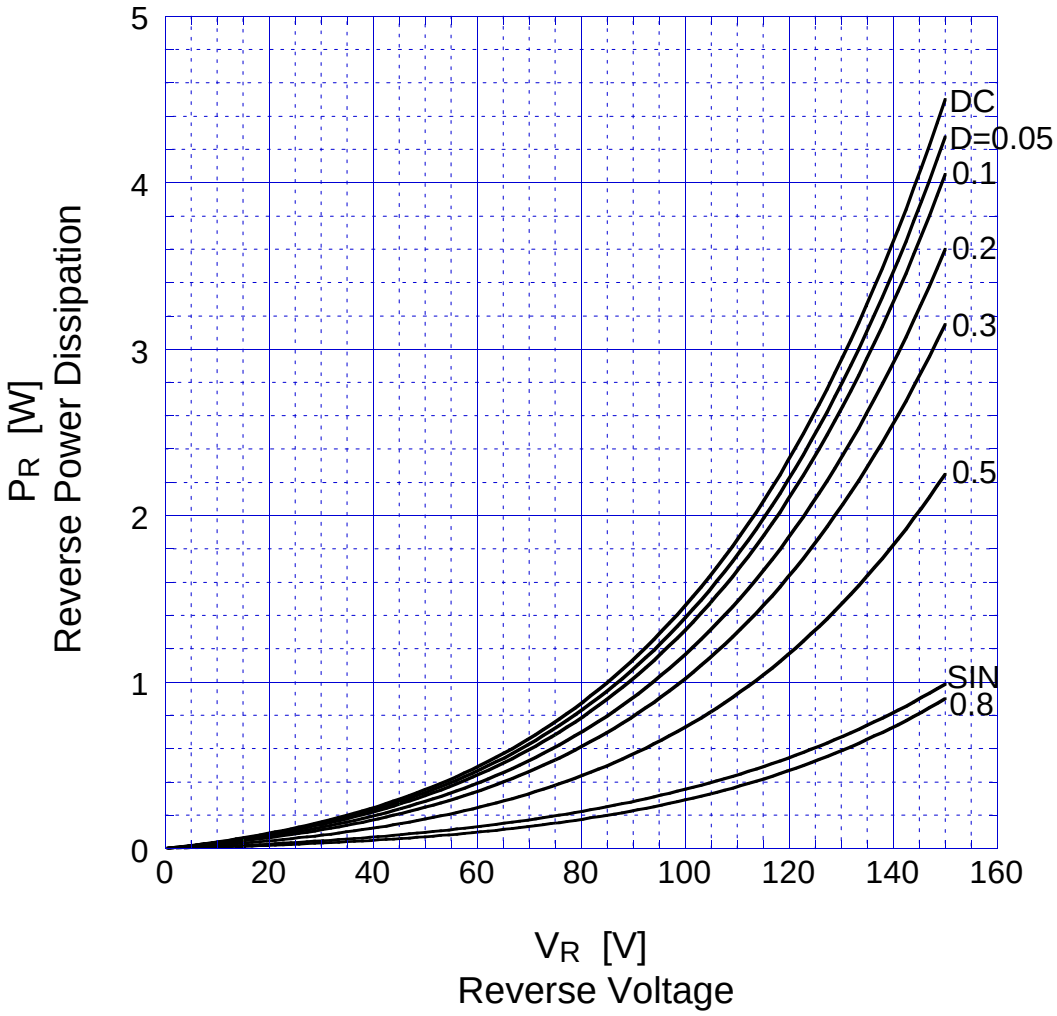
SF30NC15M Forward Power Dissipation



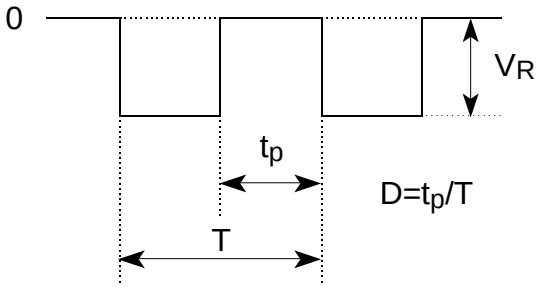
Tj = 150°C



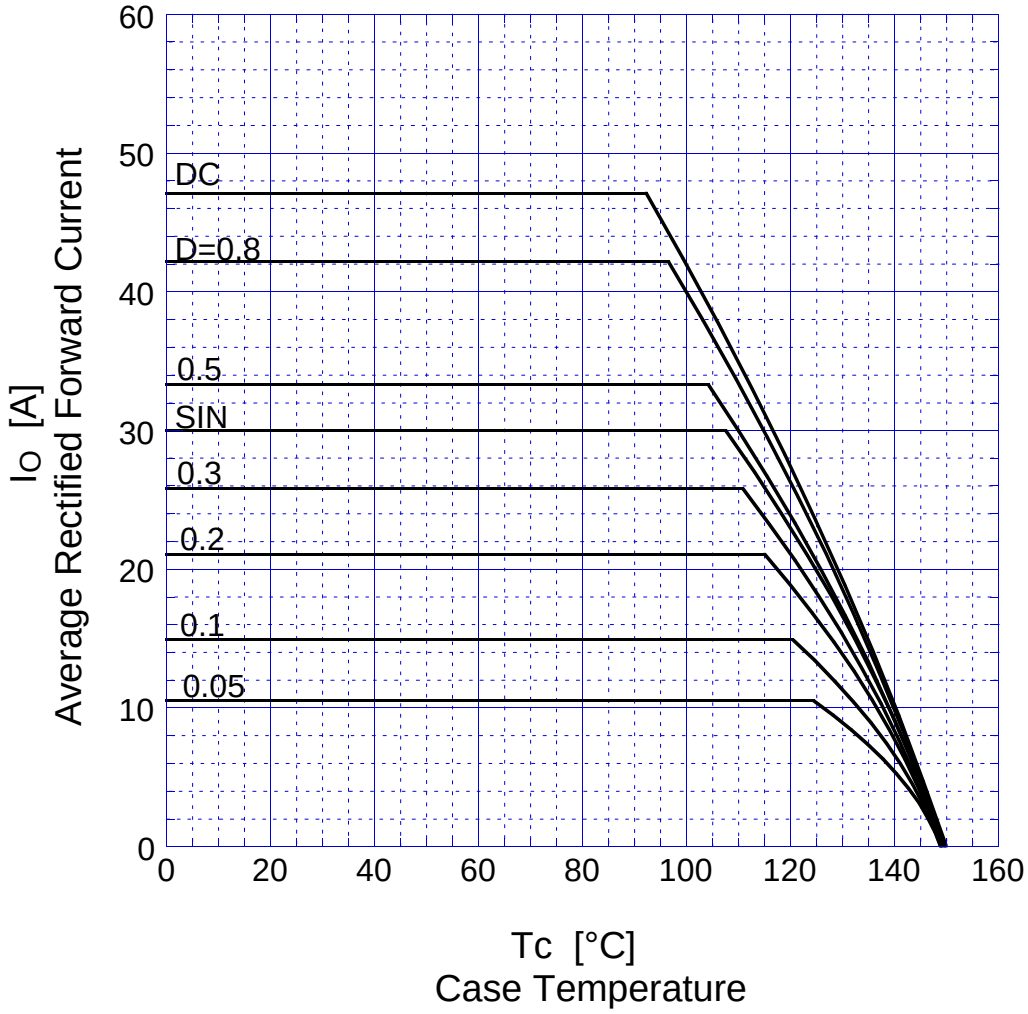
SF30NC15M Reverse Power Dissipation



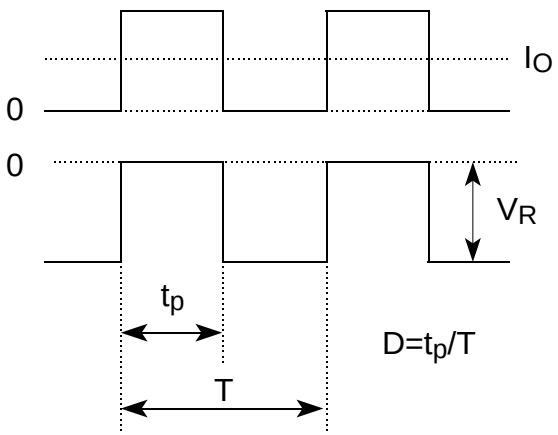
Tj = 150°C



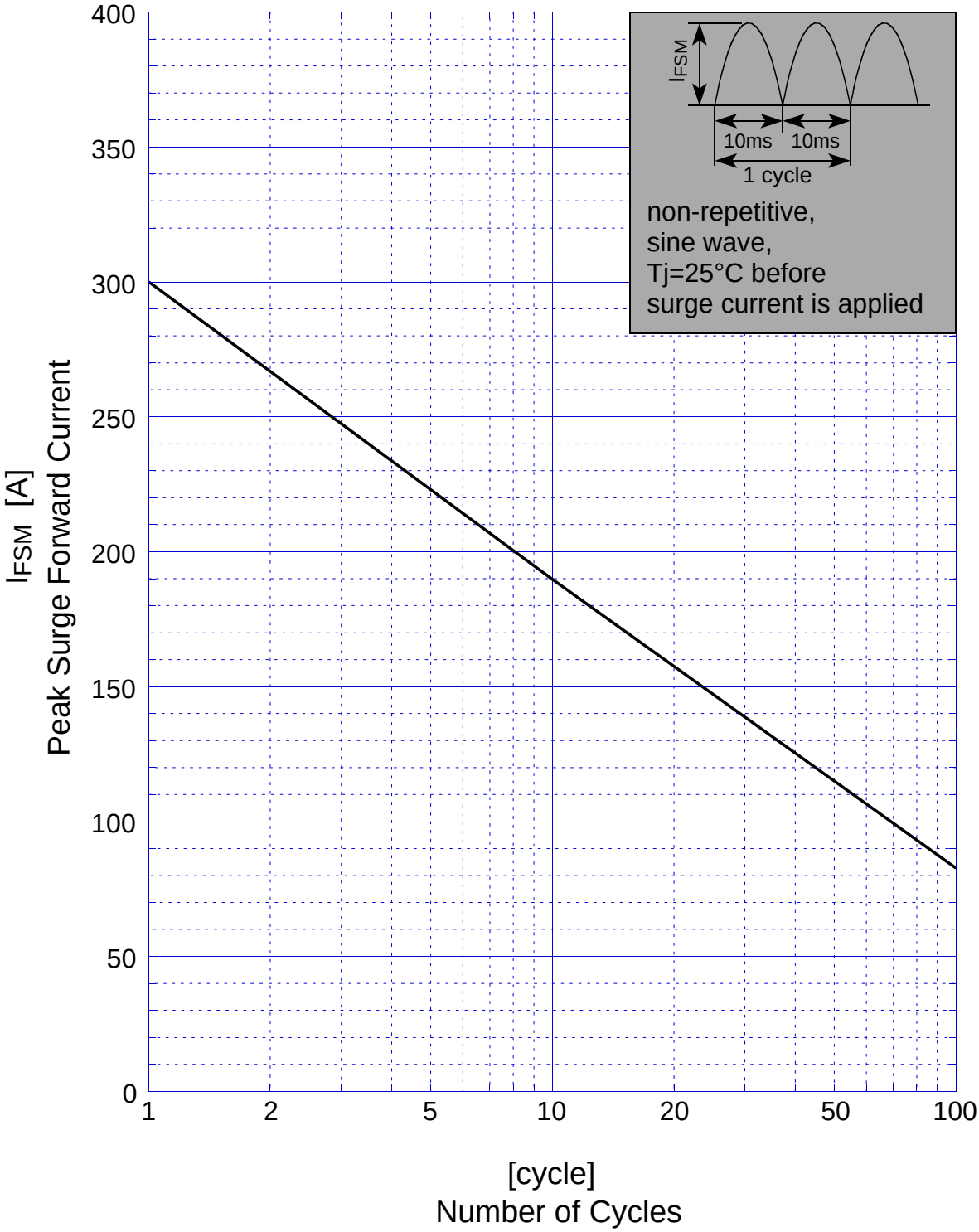
SF30NC15M Derating Curve

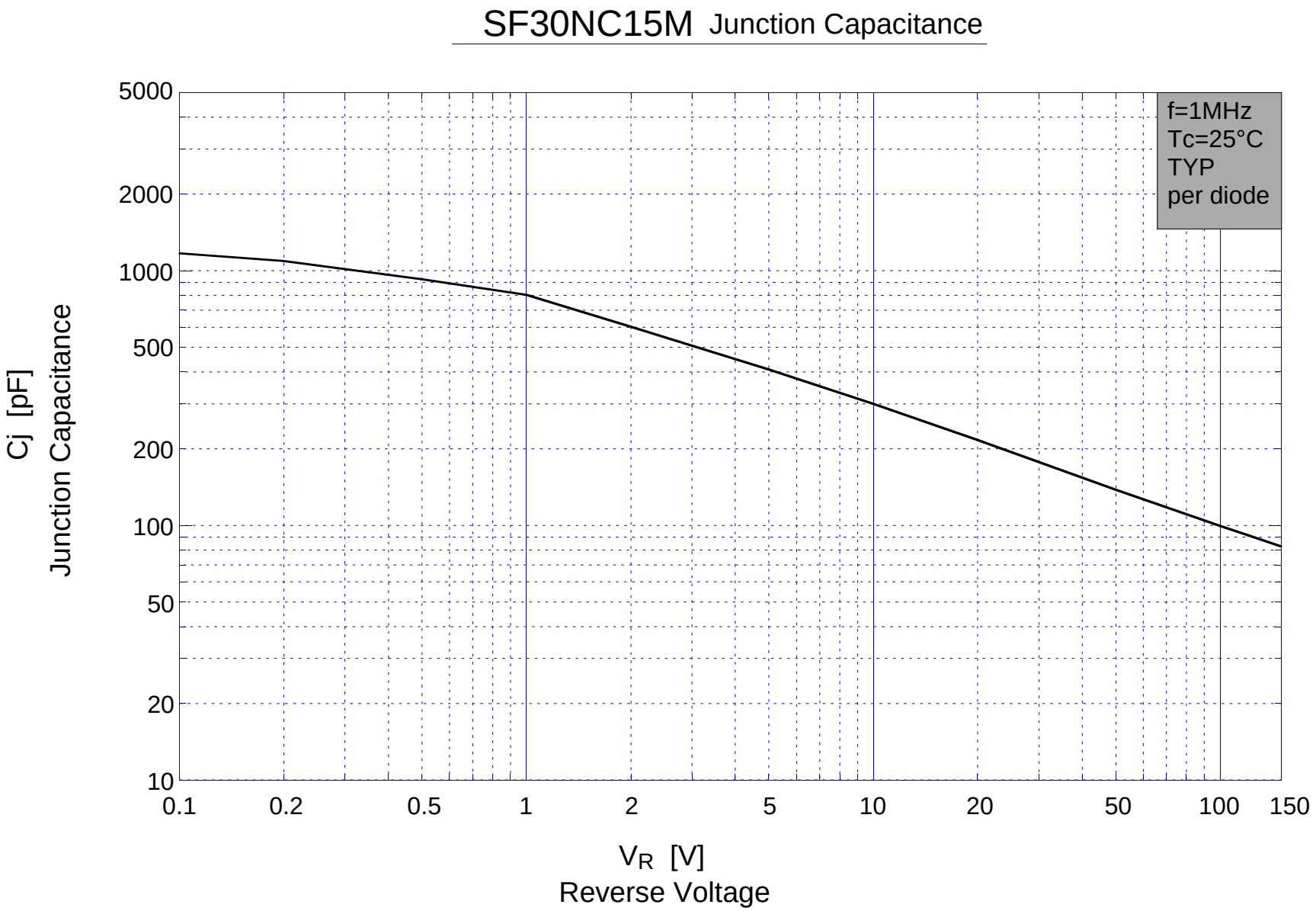


V_R =75V



SF30NC15M Peak Surge Forward Capability




SF30NC15M Junction Capacitance
f=1MHz
Tc=25°C
TYP
per diode
Cj [pF]
Junction Capacitance
5000
2000
1000
500
200
100
50
20
10
0.1
0.2
0.5
1
2
5
10
20
50
100
150
VR [V]
Reverse Voltage