SHINDENGEN

Varistor

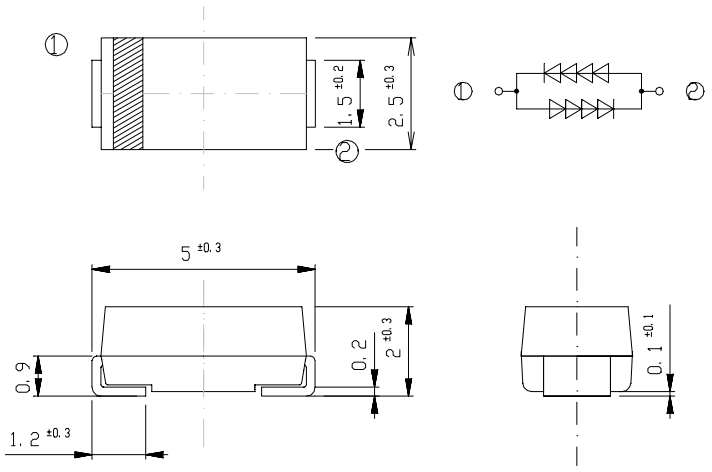
SMD

VR61F1

OUTLINE DIMENSIONS

Case : 1F

(Unit : mm)



RATINGS

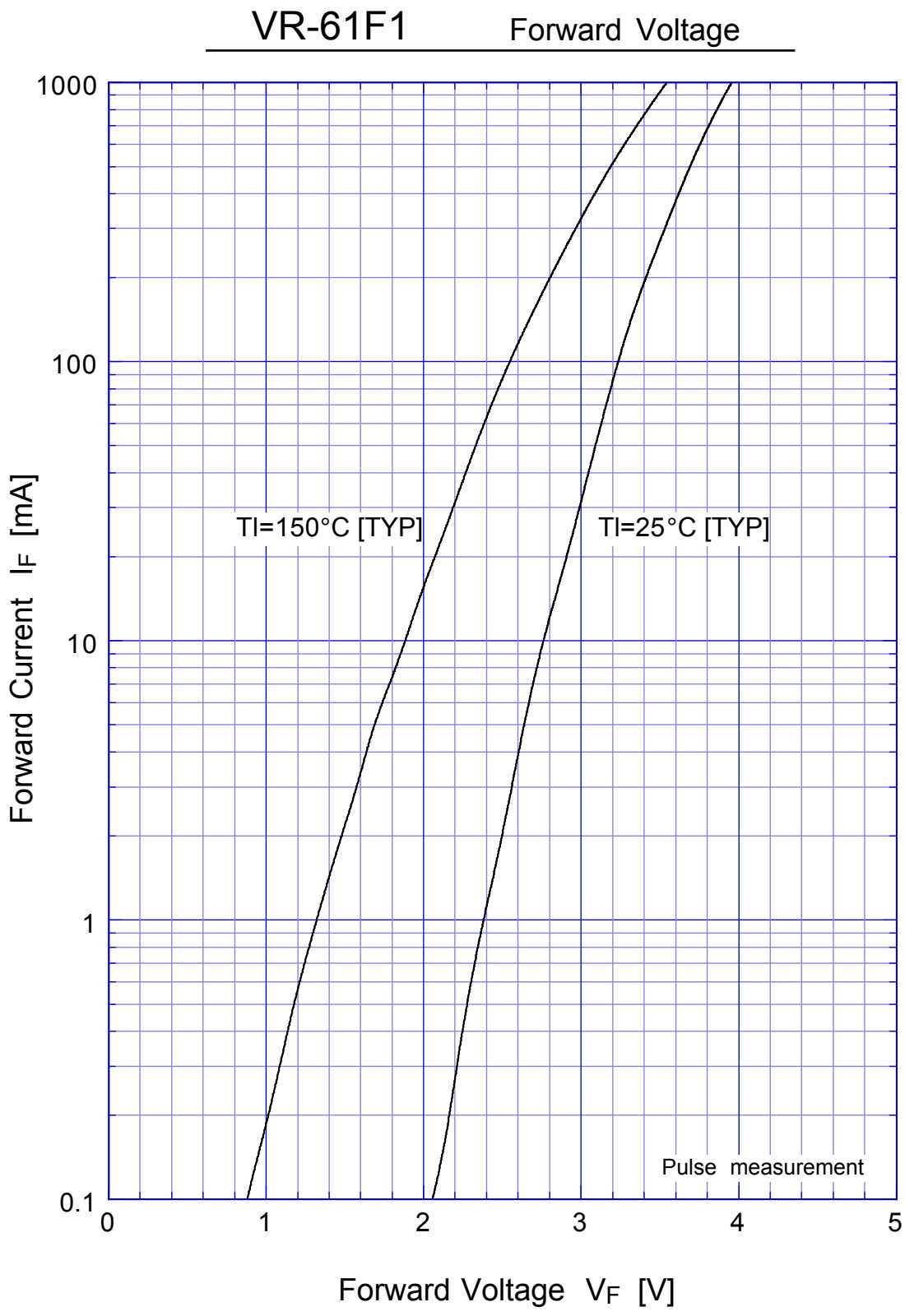
●Absolute Maximum Ratings

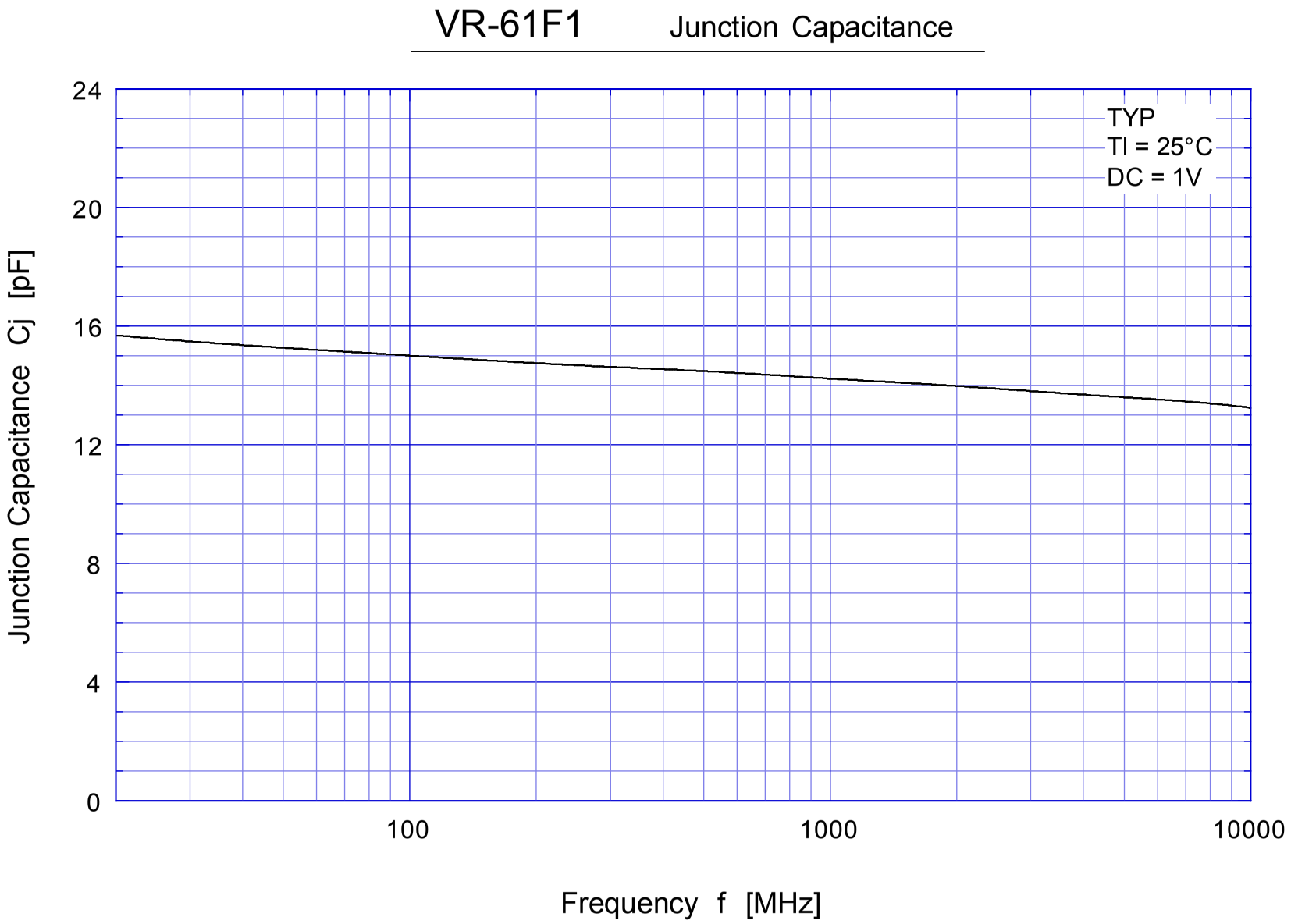
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		−55～150	℃
Junction Temperature	Tj		150	℃
Average Rectified Forward Current	I_O	Ta = 25℃, Sine wave, R-load, Commercial frequency, On alumina substrate	0.37	Arms
		Ta = 25℃, Sine wave, R-load, Commercial frequency, On glass-epoxy substrate	0.28	
Peak Surge Forward Current	I_{FSM}	50Hz, Sine wave, Non-repetitive	7.5	Arms
		10/200 μ s, Non-repetitive	60	A
		10/1000 μ s, Non-repetitive	30	A

●Electrical Characteristics (Tl=25℃)

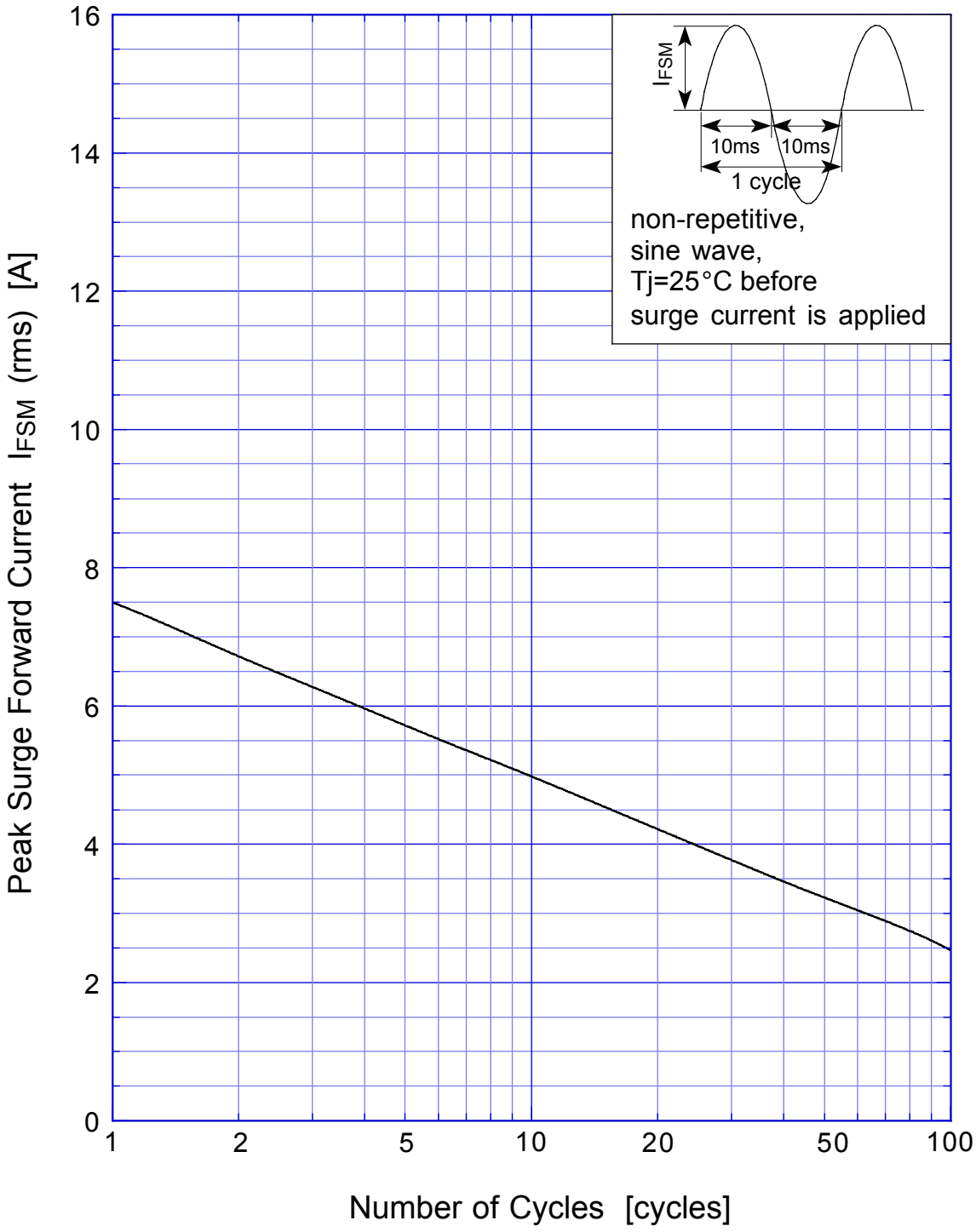
Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V_F	I_F = 1mA	2.05～2.55	V
		I_F = 10mA	2.50～3.00	
		I_F = 70mA	2.85～3.35	
Junction Capacitance	Cj	f = 100kHz, V_D = 1V, OSC = 50mA	TYP 15	pF
Thermal Resistance	θ ja	Junction to ambient, On alumina substrate	MAX 108	℃/W
		Junction to ambient, On glass-epoxy substrate	MAX 157	

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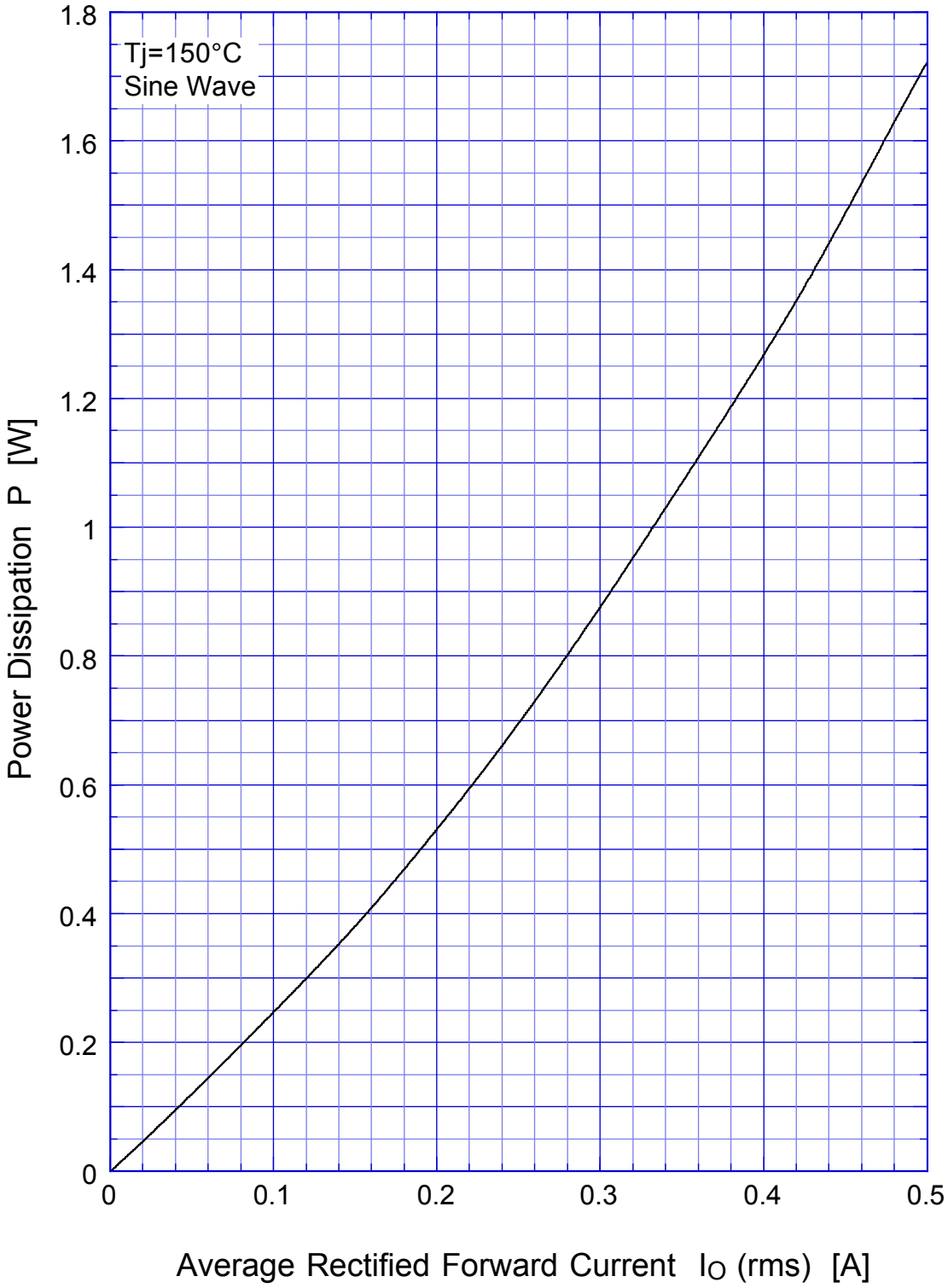

VR-61F1
Forward Voltage
1000
100
10
1
0.1
0
1
2
3
4
5
Forward Current IF [mA]
Forward Voltage VF [V]
Tl=150°C [TYP]
Tl=25°C [TYP]
Pulse measurement


VR-61F1
Junction Capacitance
TYP
TI = 25°C
DC = 1V
Junction Capacitance Cj [pF]
24
20
16
12
8
4
0
100
1000
10000
Frequency f [MHz]

VR-61F1 Peak Surge Forward Capability



VR-61F1 Forward Power Dissipation



VR-61F1 Derating Curve

