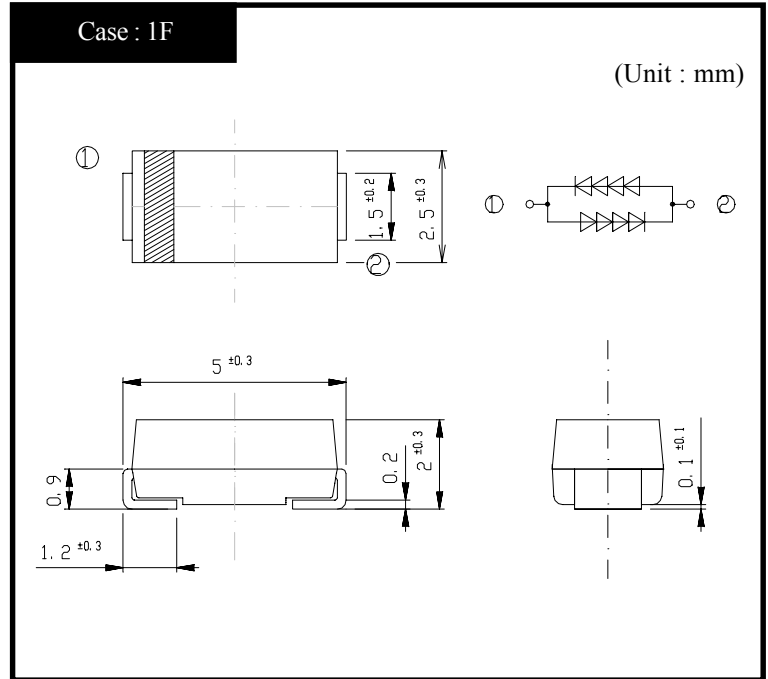


VR61F1

OUTLINE DIMENSIONS



RATINGS

● Absolute Maximum Ratings

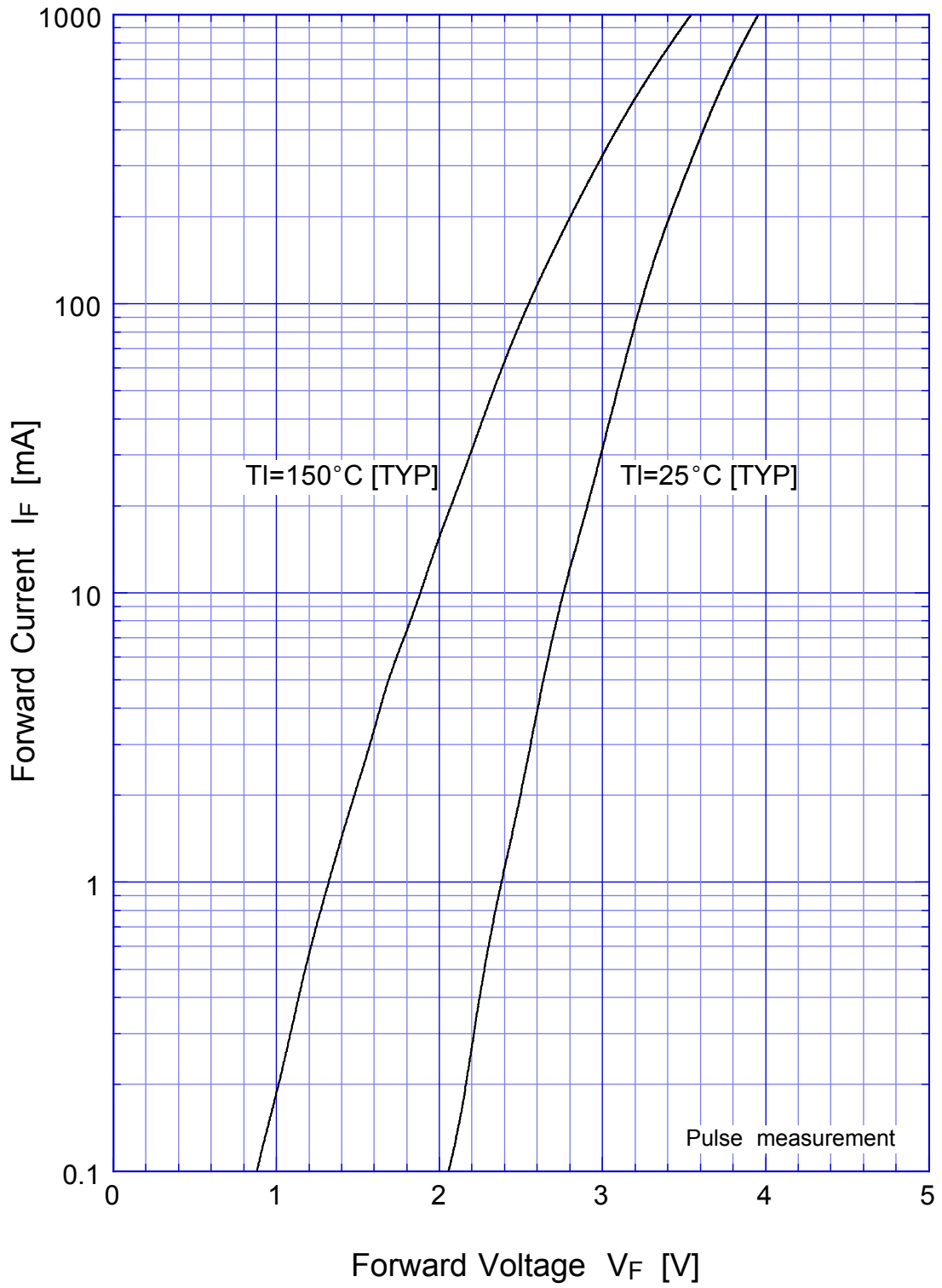
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	T _{stg}		-55~150	°C
Junction Temperature	T _j		150	°C
Average Rectified Forward Current	I _O	T _a = 25°C, Sine wave, R-load, Commercial frequency, On alumina substrate	0.37	Arms
		T _a = 25°C, Sine wave, R-load, Commercial frequency, On glass-epoxy substrate	0.28	
Peak Surge Forward Current	I _{FSM}	50Hz, Sine wave, Non-repetitive	7.5	Arms
		10/200 μs, Non-repetitive	60	A
		10/1000 μs, Non-repetitive	30	A

● Electrical Characteristics (T_I=25°C)

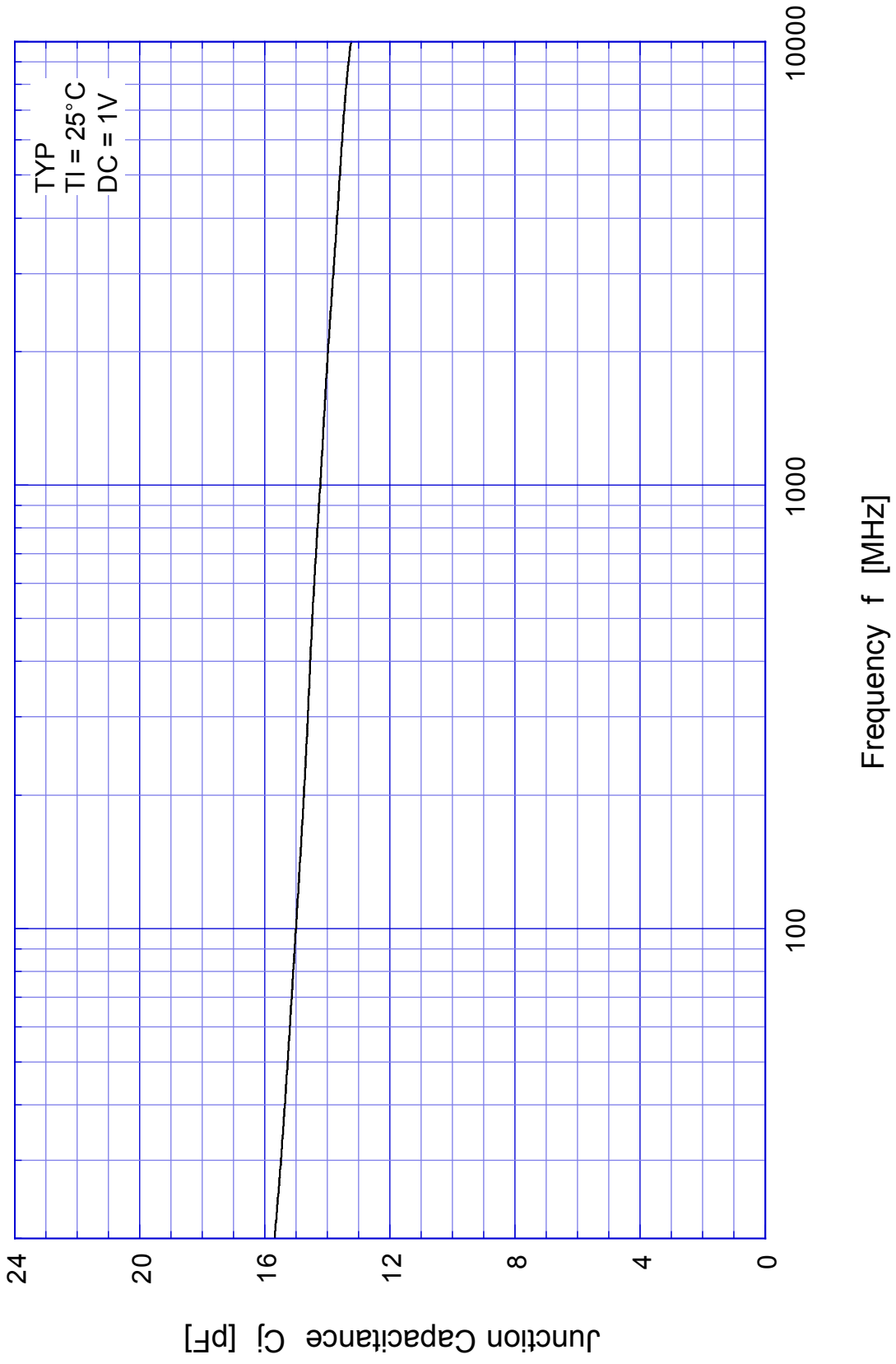
Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V _F	I _F = 1mA	2.05~2.55	V
		I _F = 10mA	2.50~3.00	
		I _F = 70mA	2.85~3.35	
Junction Capacitance	C _j	f = 100kHz, V _D = 1V, OSC = 50mA	TYP 15	pF
Thermal Resistance	θ _{ja}	Junction to ambient, On alumina substrate	MAX 108	°C/W
		Junction to ambient, On glass-epoxy substrate	MAX 157	

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Forward Voltage

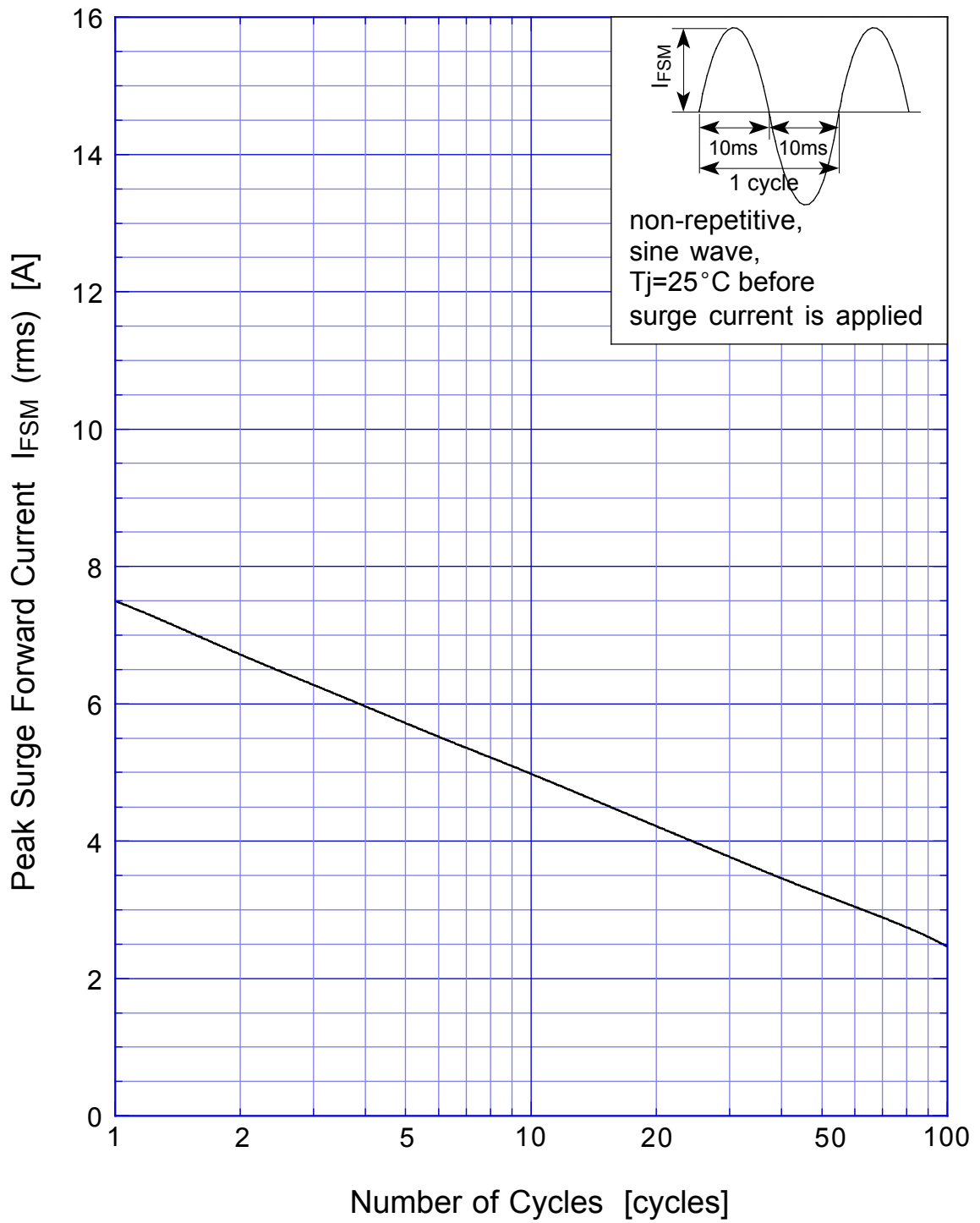


VR-61F1 Junction Capacitance

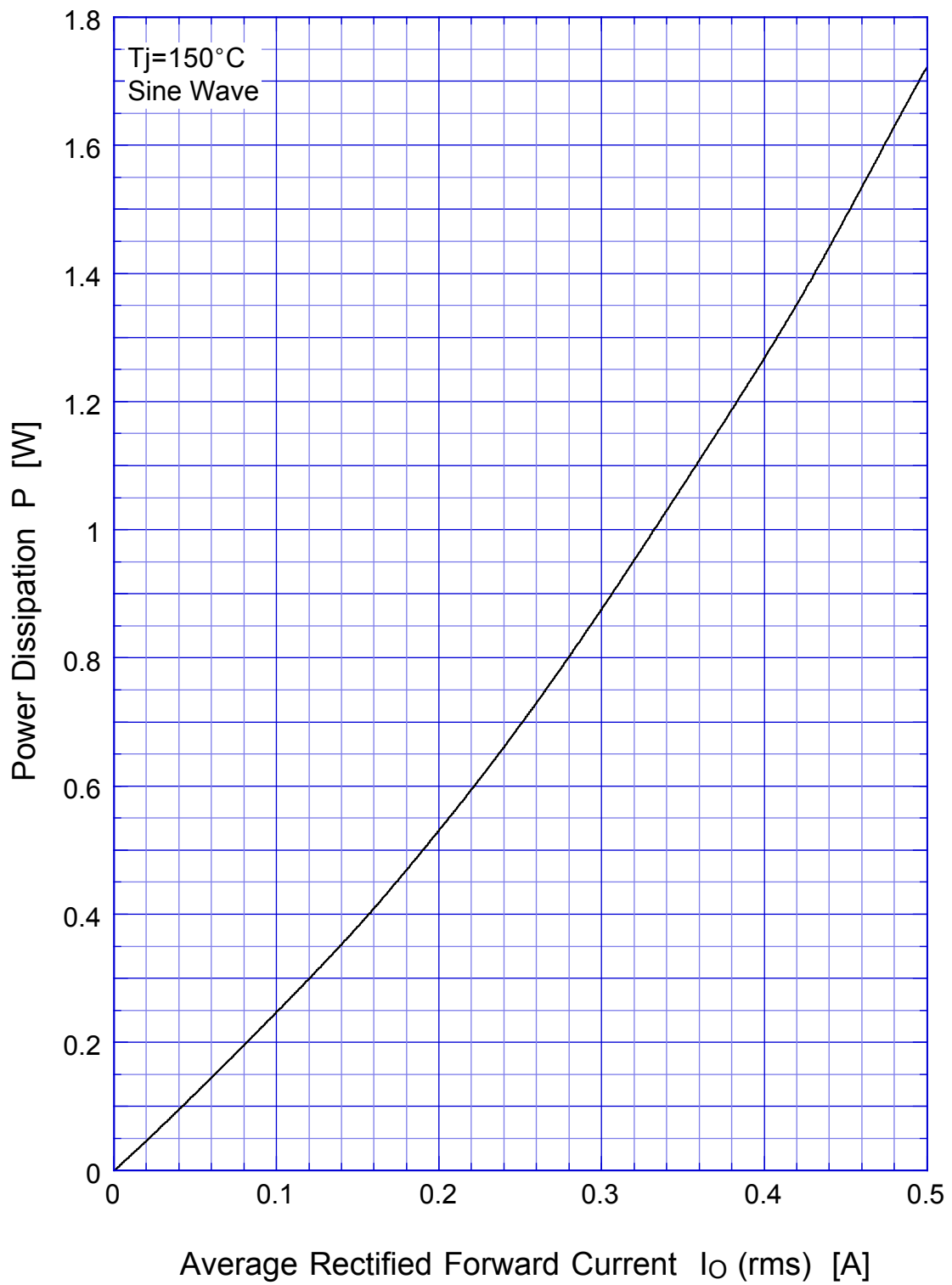


VR-61F1

Peak Surge Forward Capability



VR-61F1 Forward Power Dissipation



VR-61F1

Derating Curve

