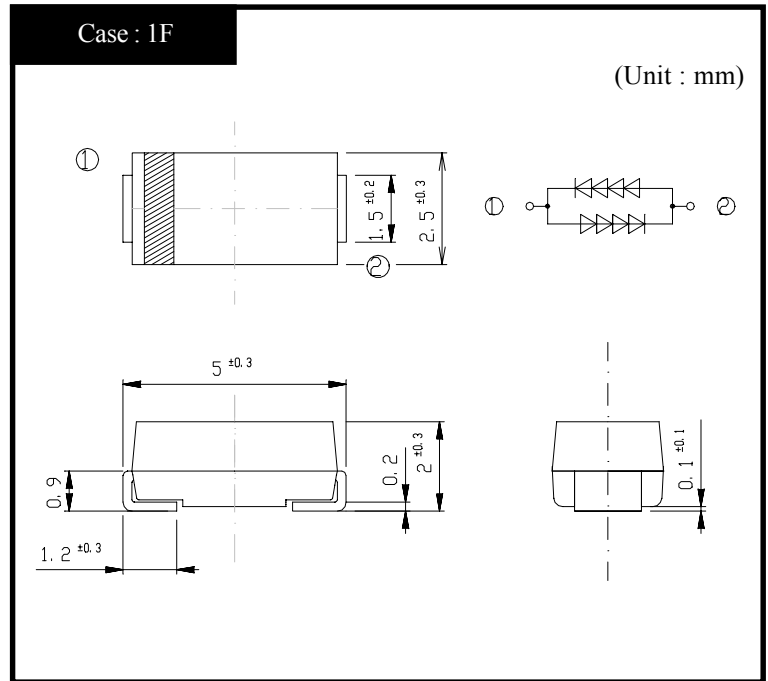


# VR61F1

## OUTLINE DIMENSIONS



## RATINGS

### ● Absolute Maximum Ratings

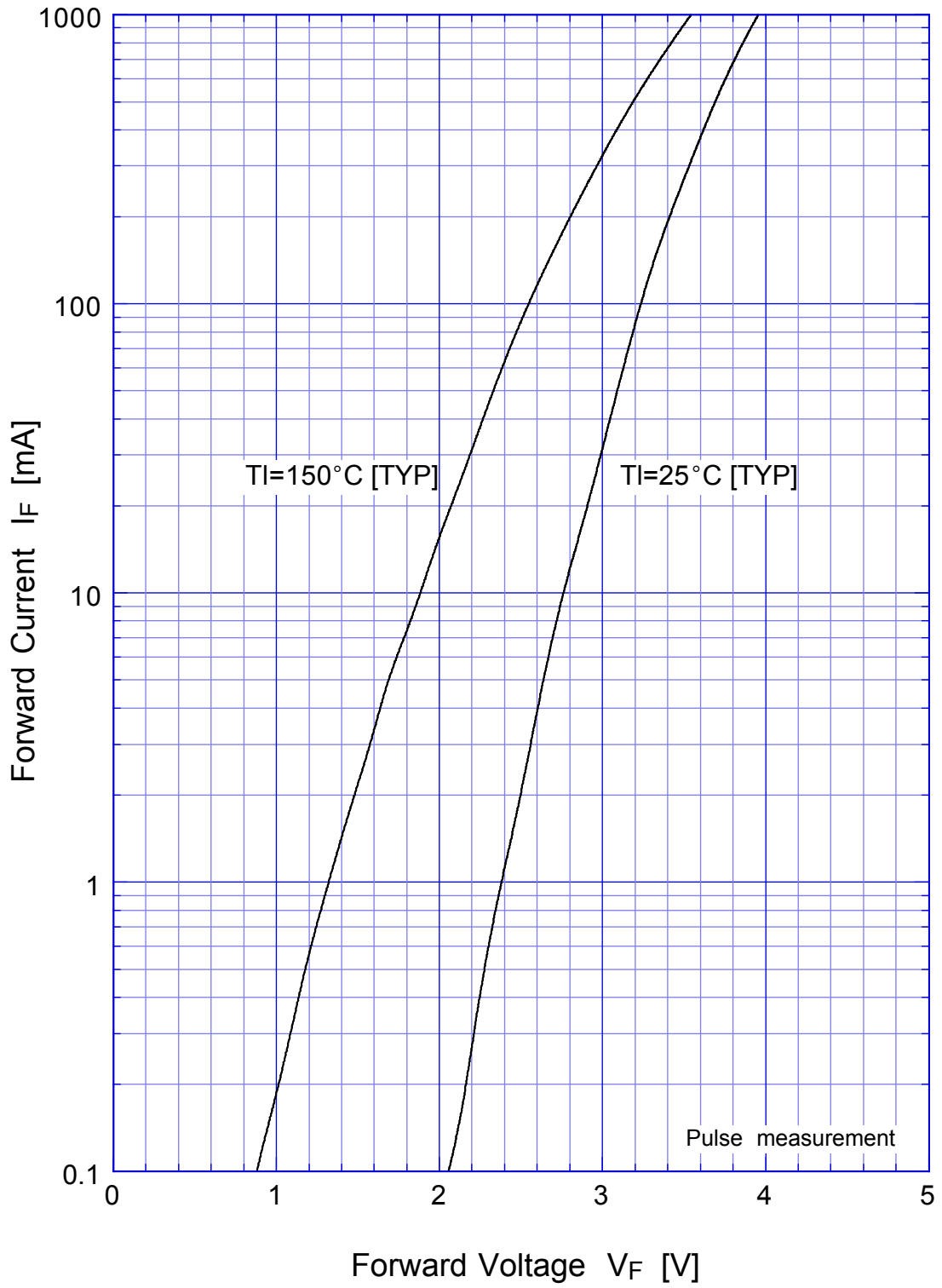
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	T <sub>stg</sub>		-55~150	°C
Junction Temperature	T <sub>j</sub>		150	°C
Average Rectified Forward Current	I <sub>O</sub>	T <sub>a</sub> = 25°C, Sine wave, R-load, Commercial frequency, On alumina substrate	0.37	Arms
		T <sub>a</sub> = 25°C, Sine wave, R-load, Commercial frequency, On glass-epoxy substrate	0.28	
Peak Surge Forward Current	I <sub>FSM</sub>	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<sub>I</sub>=25°C)

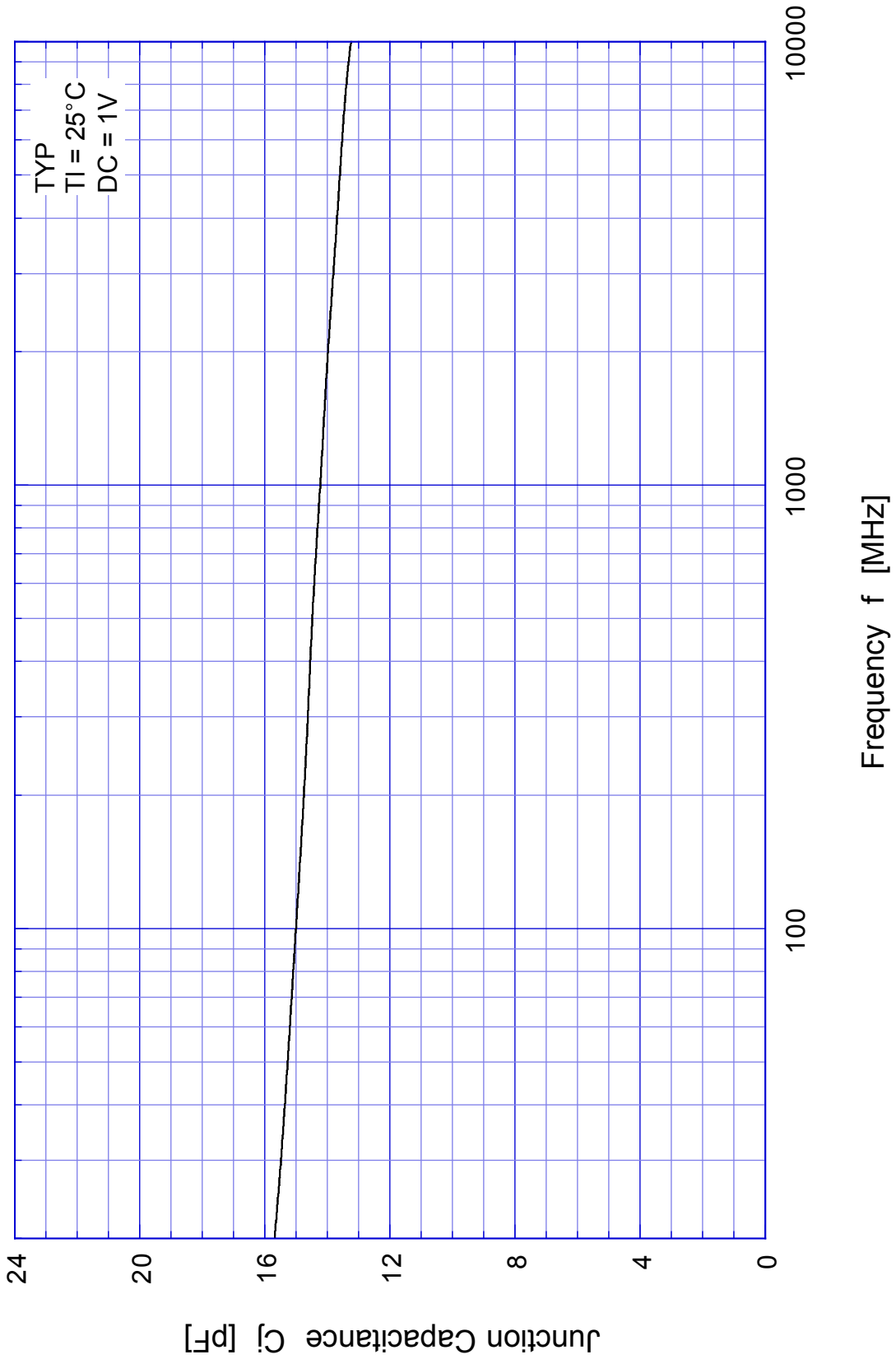
Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> = 1mA	2.05~2.55	V
		I <sub>F</sub> = 10mA	2.50~3.00	
		I <sub>F</sub> = 70mA	2.85~3.35	
Junction Capacitance	C <sub>j</sub>	f = 100kHz, V <sub>D</sub> = 1V, OSC = 50mA	TYP 15	pF
Thermal Resistance	θ <sub>ja</sub>	Junction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

VR-61F1

Forward Voltage

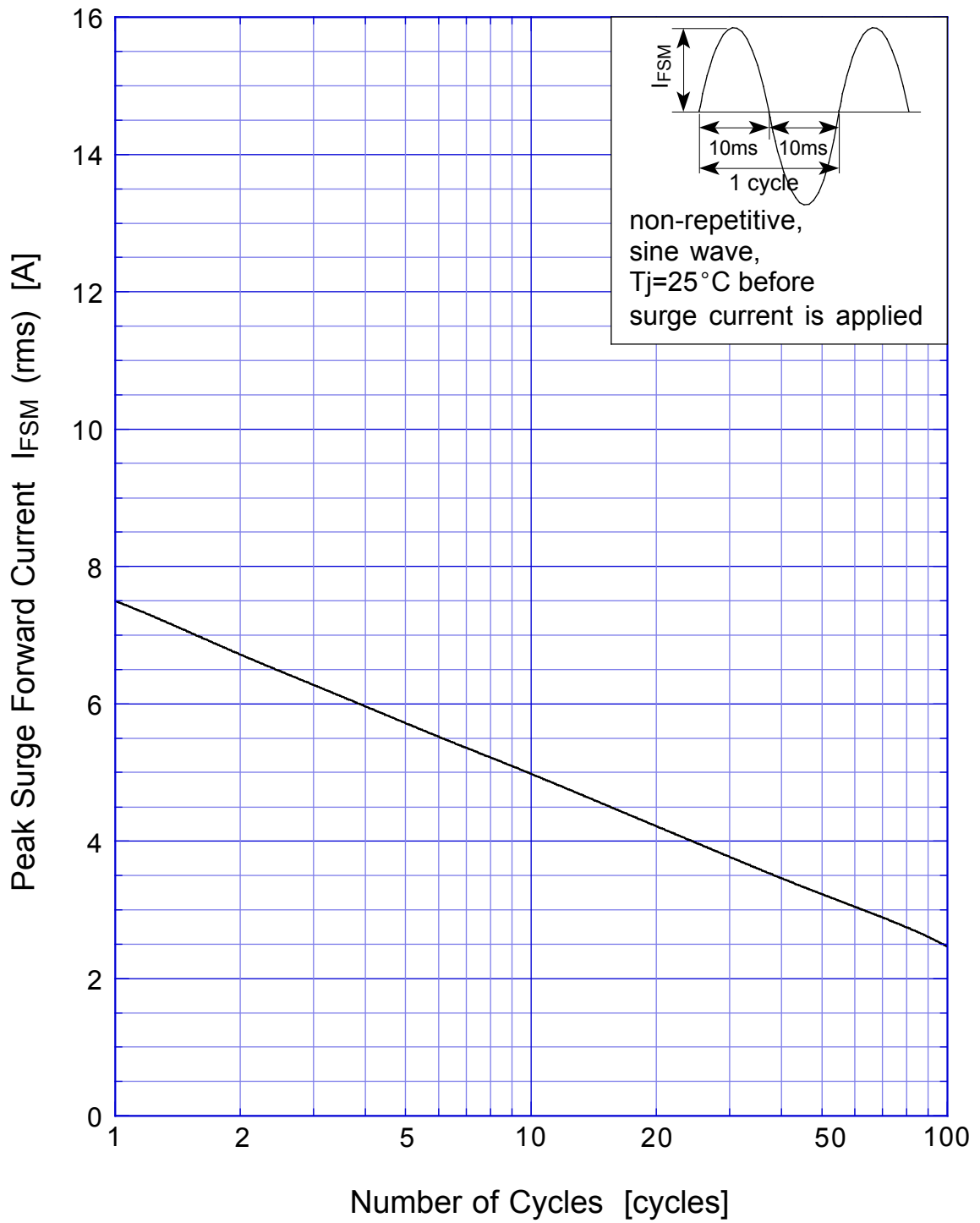


# VR-61F1 Junction Capacitance

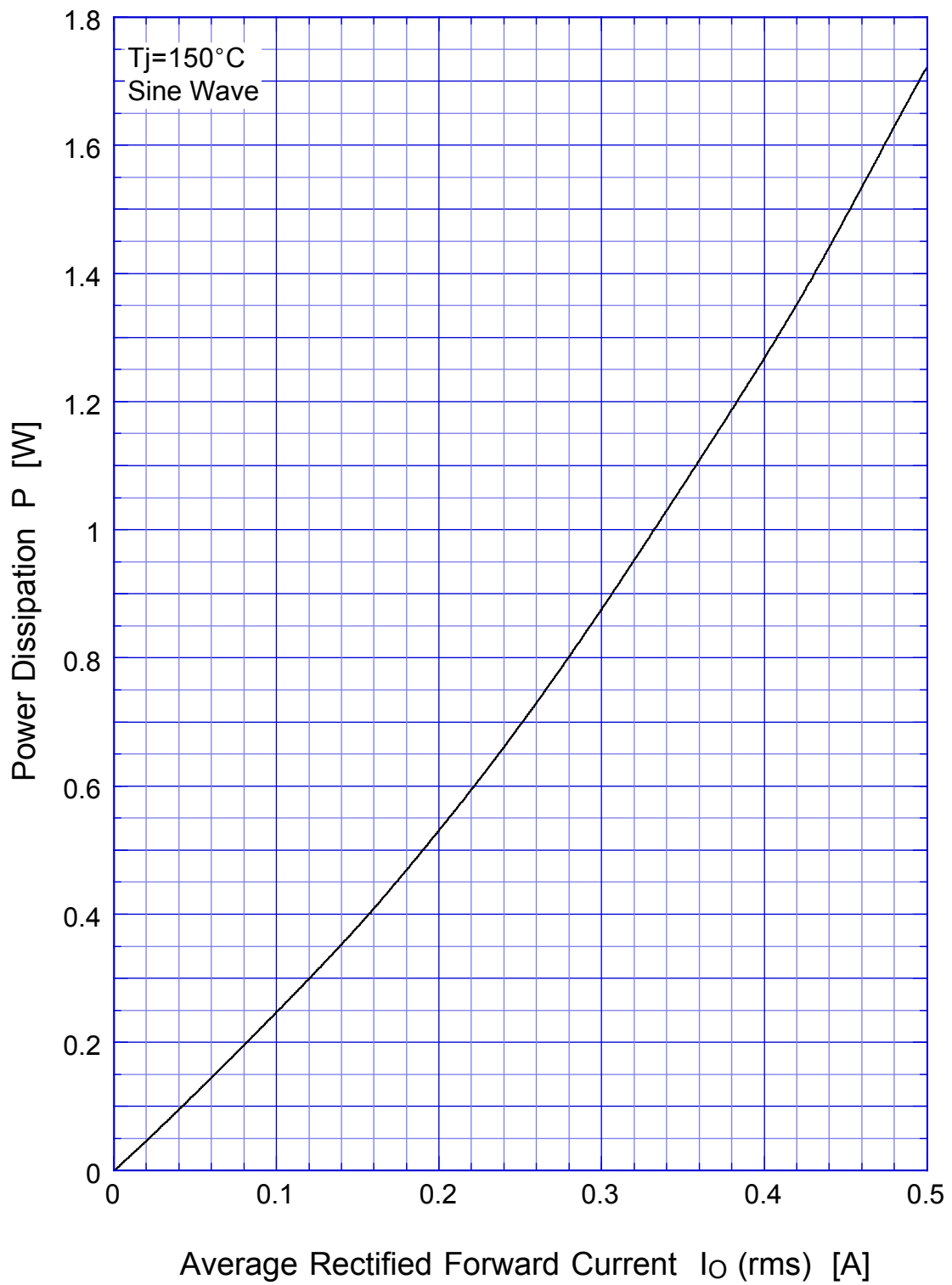


# VR-61F1

## Peak Surge Forward Capability



## VR-61F1 Forward Power Dissipation



# VR-61F1

# Derating Curve

