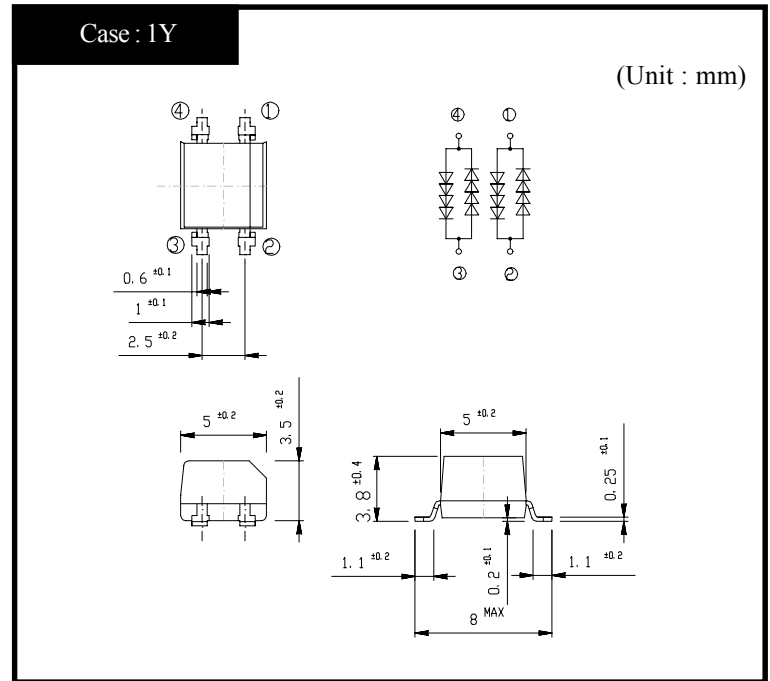


# VRYA15

## OUTLINE DIMENSIONS



## RATINGS

### ● Absolute Maximum Ratings

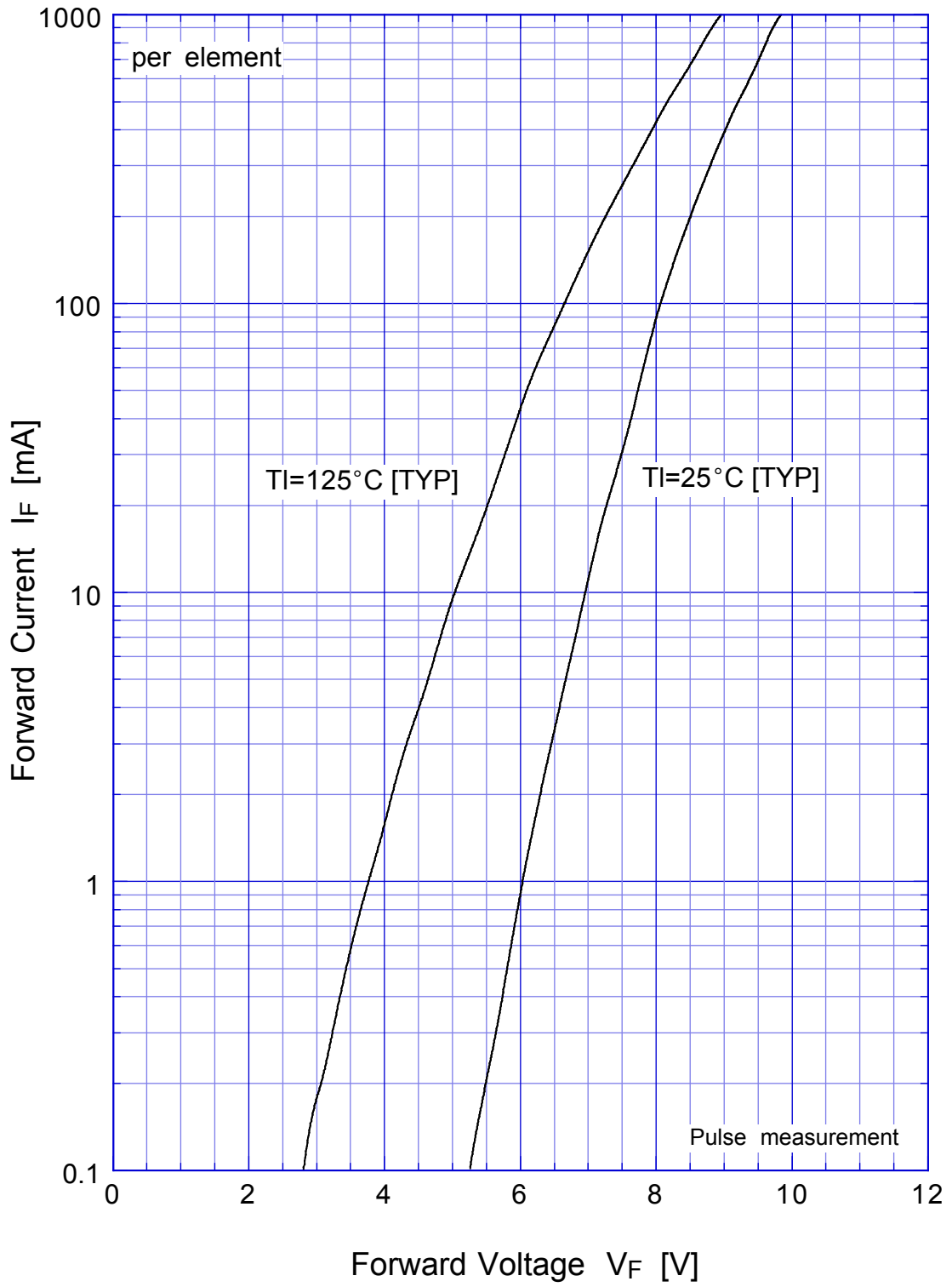
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	T <sub>stg</sub>		-30~125	°C
Junction Temperature	T <sub>j</sub>		125	°C
Average Rectified Forward Current	I <sub>O</sub>	T <sub>a</sub> = 40°C, Sine wave, R-load, Commercial frequency, On alumina substrate, 1 element operation	140	mA <sub>rms</sub>
		T <sub>a</sub> = 40°C, Sine wave, R-load, Commercial frequency, On alumina substrate, 2 elements operation	90	
		T <sub>a</sub> = 40°C, Sine wave, R-load, Commercial frequency, On glass-epoxy substrate, 1 element operation	90	
		T <sub>a</sub> = 40°C, Sine wave, R-load, Commercial frequency, On glass-epoxy substrate, 2 elements operation	50	
Peak Surge Forward Current	I <sub>FSM</sub>	50Hz, Sine wave, Non-repetitive, 2 elements series operation	6.5	Arms
		10/200 μs, Non-repetitive, 2 elements series operation	50	A
		10/1000 μs, Non-repetitive, 2 elements series operation	24	A

### ● Electrical Characteristics (Tl=25°C)

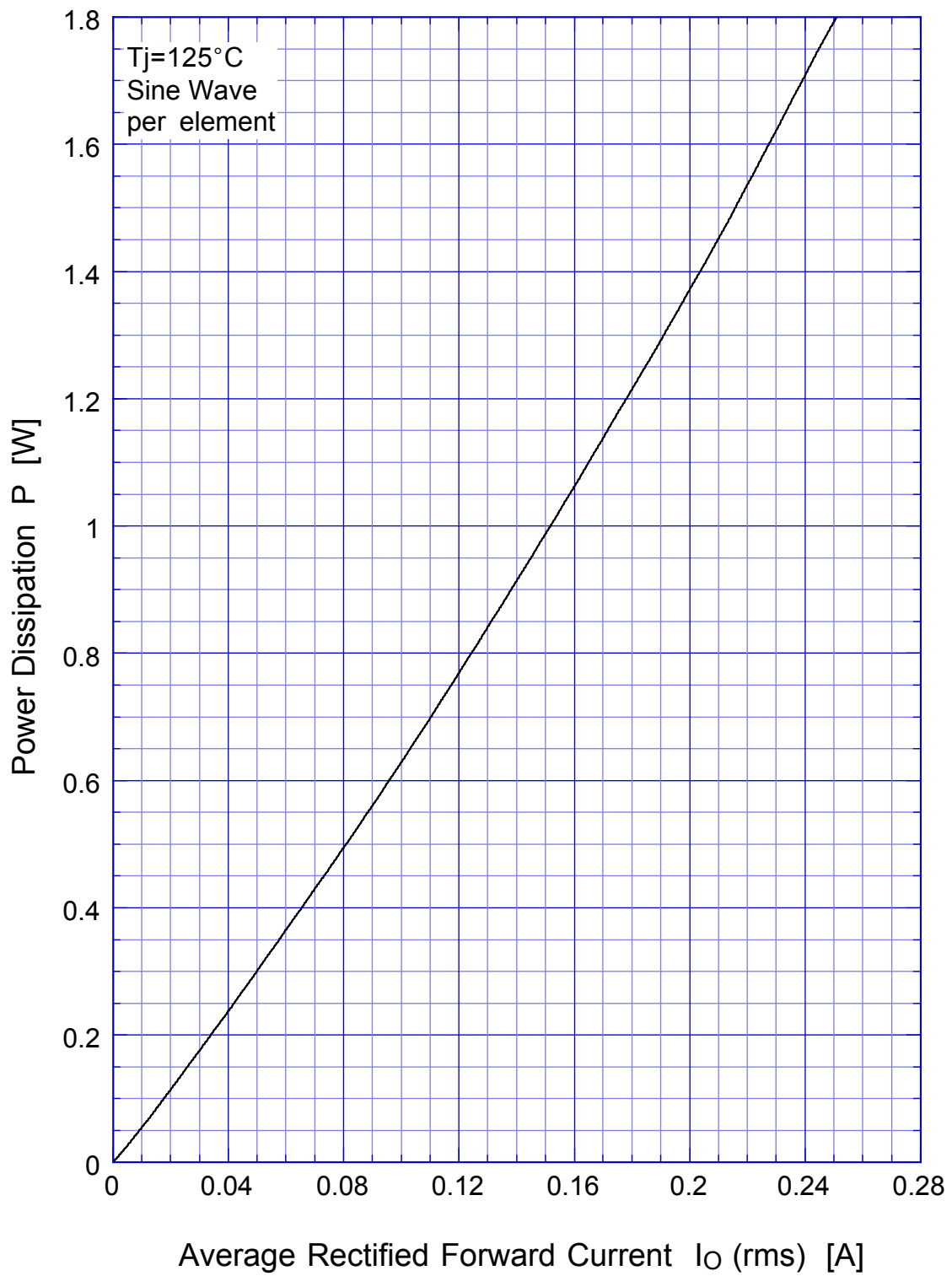
Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> = 1mA, 1 element	5.13~6.37	V
		I <sub>F</sub> = 1mA, 2 elements series	10.25~12.75	
		I <sub>F</sub> = 10mA, 1 element	6.25~7.50	
		I <sub>F</sub> = 10mA, 2 elements series	12.50~15.00	
		I <sub>F</sub> = 70mA, 1 element	7.13~8.37	
		I <sub>F</sub> = 70mA, 2 elements series	14.25~16.75	
Junction Capacitance	C <sub>j</sub>	f = 100kHz, V <sub>D</sub> = 0V, OSC = 50mV	TYP 5	pF
Thermal Resistance	θ <sub>ja</sub>	Junction to ambient, On alumina substrate, 1 element operation	MAX 90	°C/W
		Junction to ambient, On alumina substrate, 2 elements operation	MAX 150	
		Junction to ambient, On glass-epoxy substrate, 1 element operation	MAX 150	
		Junction to ambient, On glass-epoxy substrate, 2 elements operation	MAX 250	

# VR YA15

## Forward Voltage

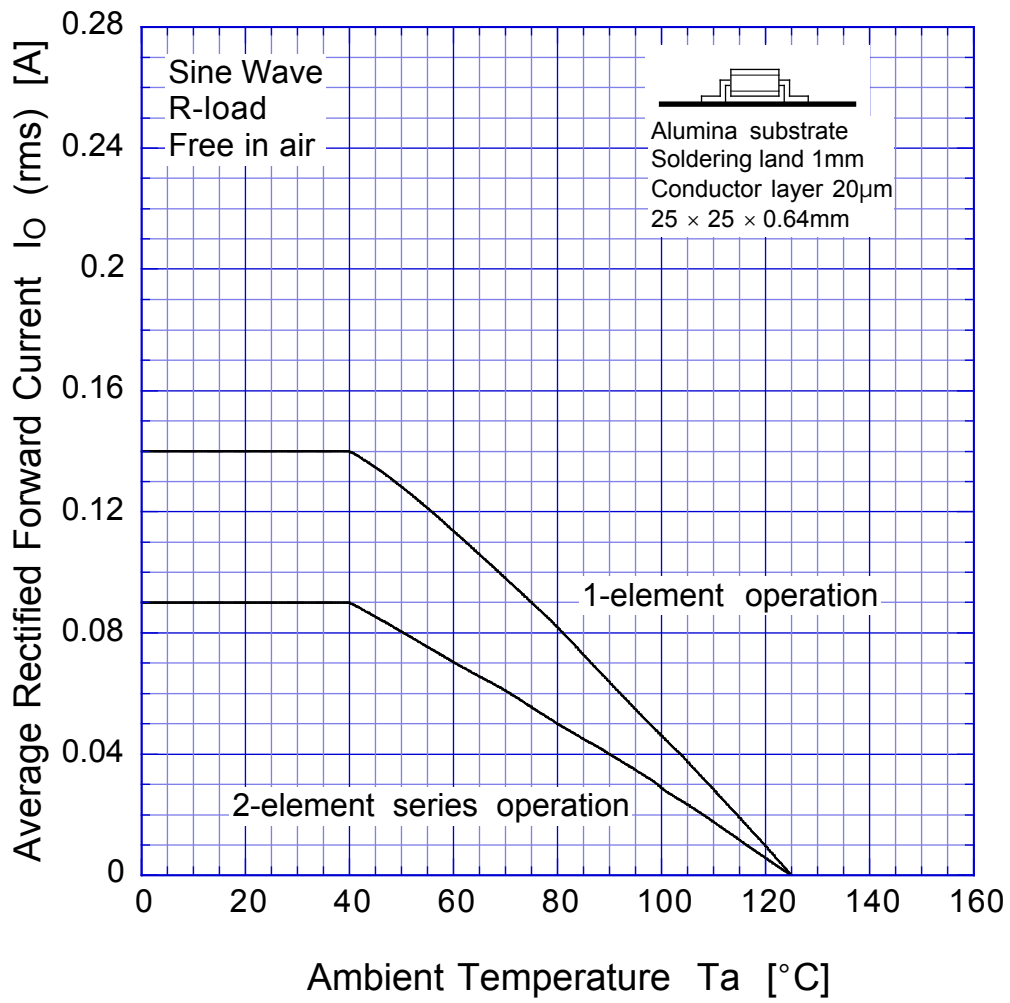


## VR YA15 Forward Power Dissipation



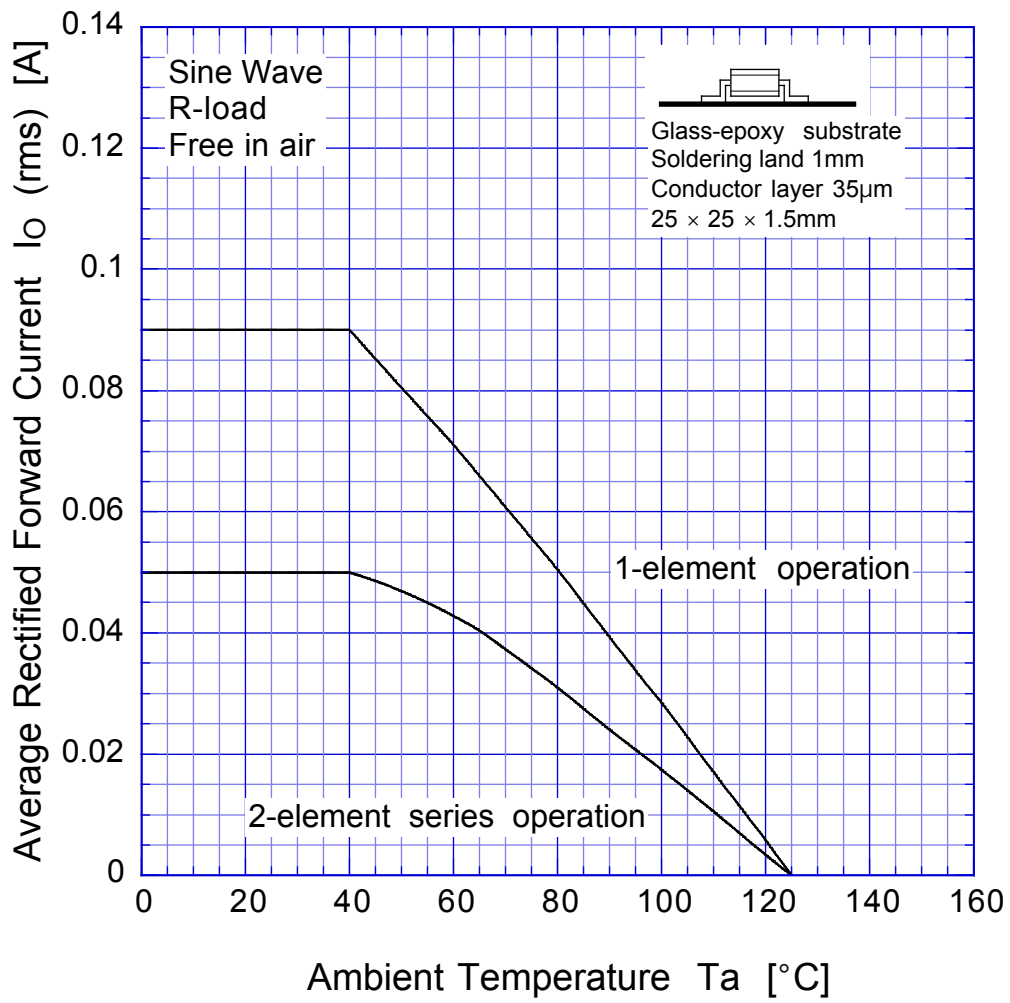
# VRYA15

# Derating Curve



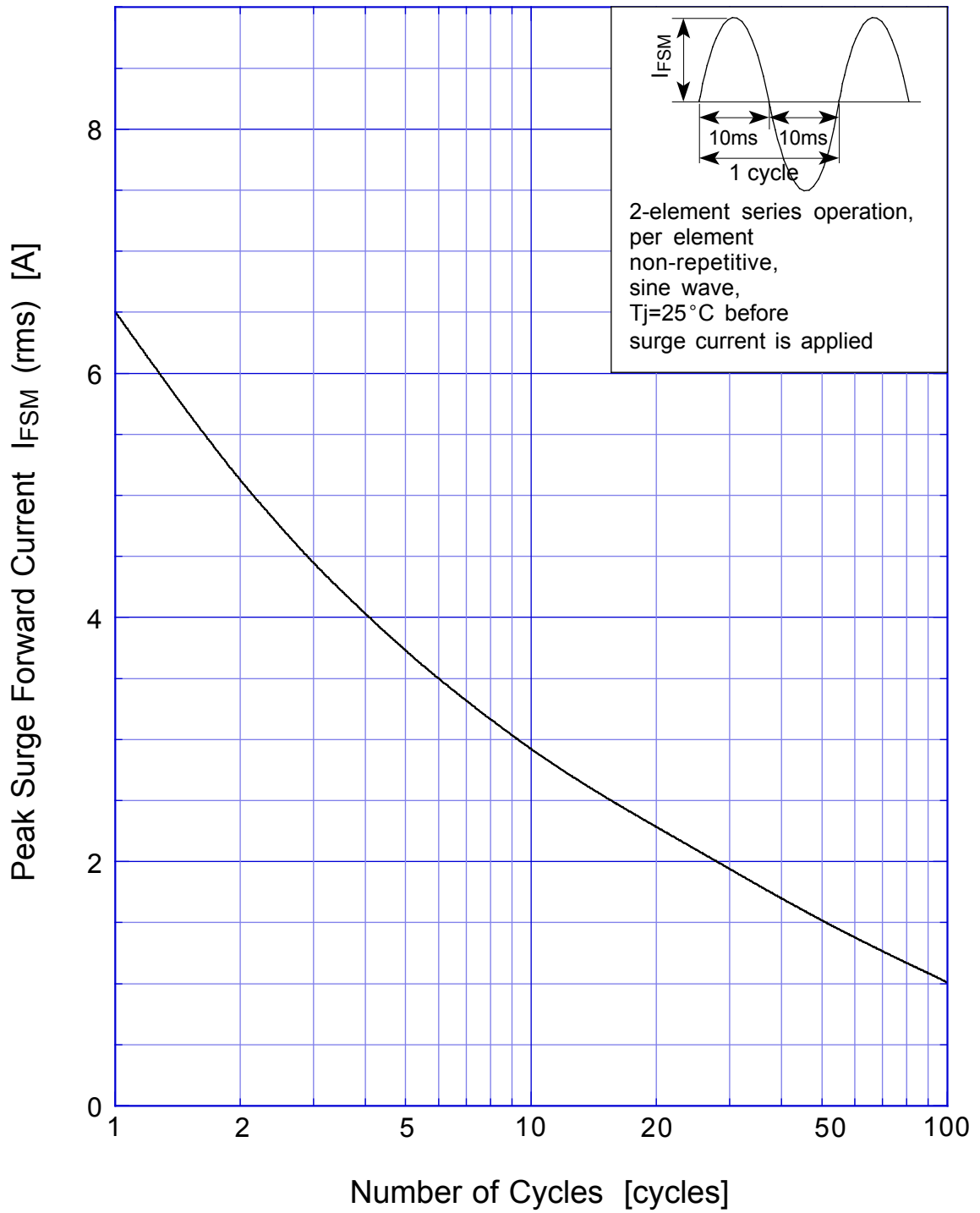
# VRYA15

# Derating Curve



# VR YA15

## Peak Surge Forward Capability



# VR YA15 Junction Capacitance

