

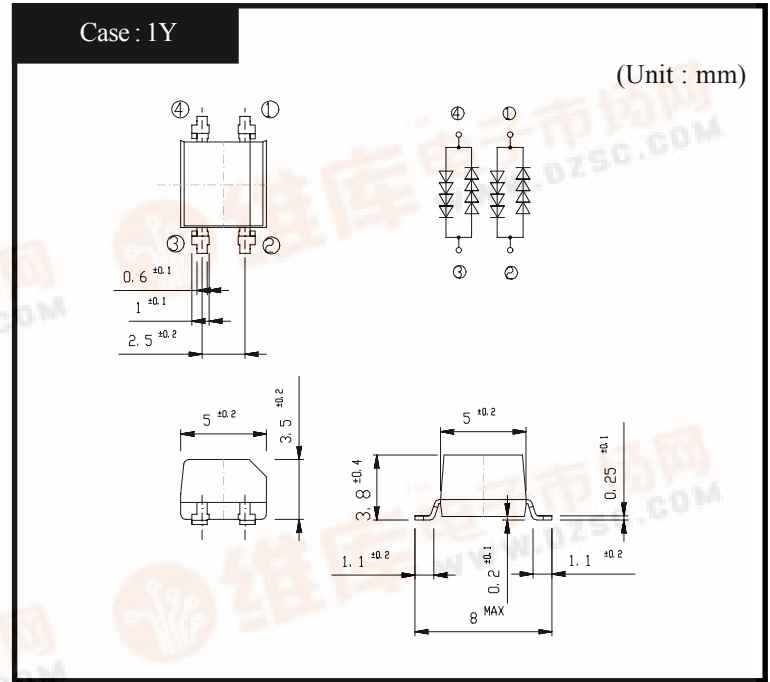
SHINDENGEN

Varistor

SMD

VRYA6

OUTLINE DIMENSIONS



RATINGS

● Absolute Maximum Ratings

Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	T _{stg}		-30~125	°C
Junction Temperature	T _j		125	°C
Average Rectified Forward Current	I _O	T _a = 40°C, Sine wave, R-load, Commercial frequency, On alumina substrate, 1 element operation	310	mArms
		T _a = 40°C, Sine wave, R-load, Commercial frequency, On alumina substrate, 2 elements operation	200	
		T _a = 40°C, Sine wave, R-load, Commercial frequency, On glass-epoxy substrate, 1 element operation	200	
		T _a = 40°C, Sine wave, R-load, Commercial frequency, On glass-epoxy substrate, 2 elements operation	130	
Peak Surge Forward Current	I _{FSM}	50Hz, Sine wave, Non-repetitive, 2 elements series operation	8	Arms
		10/200 μs, Non-repetitive, 2 elements series operation	65	A
		10/1000 μs, Non-repetitive, 2 elements series operation	30	A

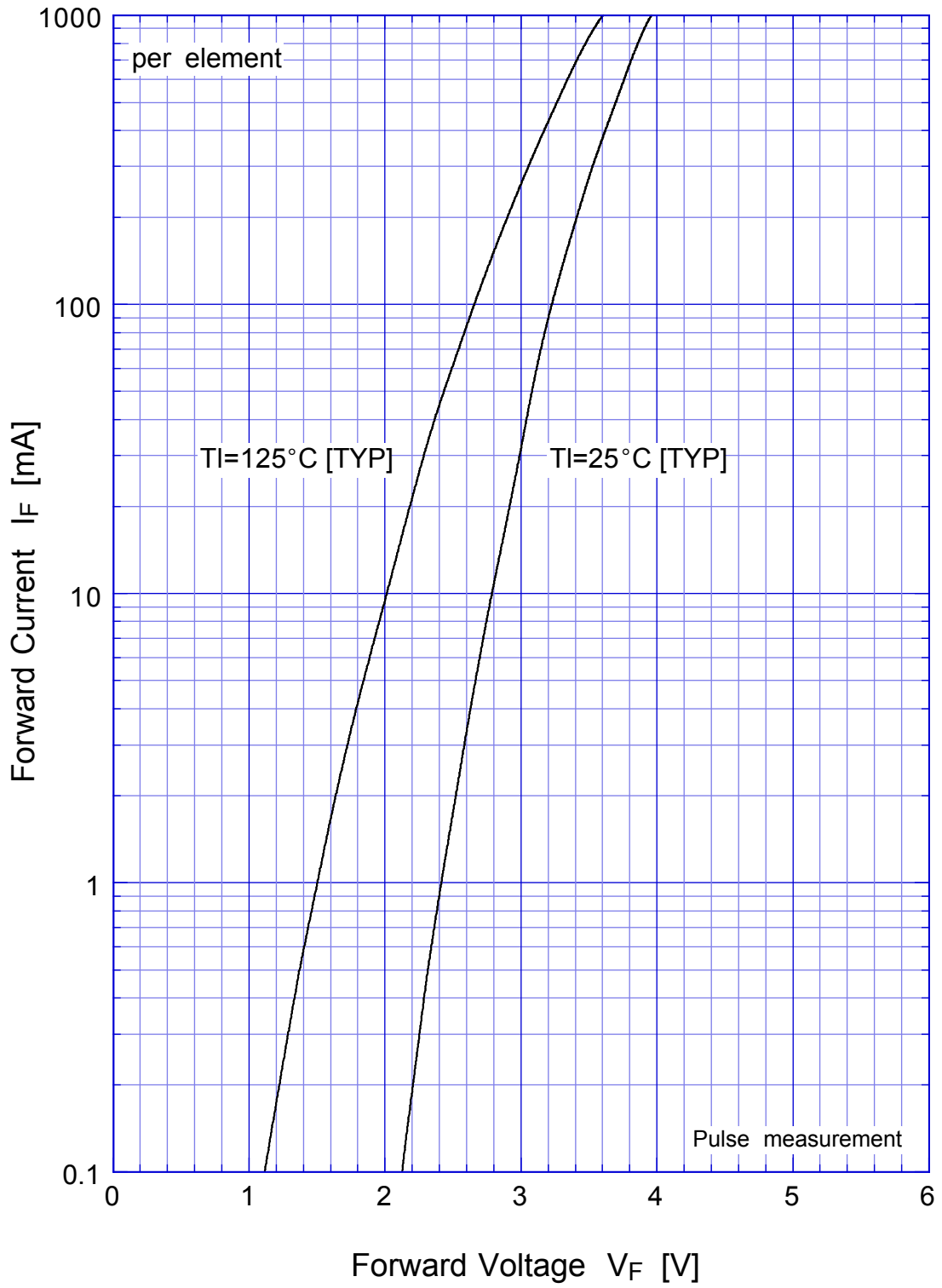
● Electrical Characteristics (T_I=25°C)

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V _F	I _F = 1mA, 1 element	2.05~2.55	V
		I _F = 1mA, 2 elements series	4.10~5.10	
		I _F = 10mA, 1 element	2.50~3.00	
		I _F = 10mA, 2 elements series	5.00~6.00	
		I _F = 70mA, 1 element	2.85~3.35	
		I _F = 70mA, 2 elements series	5.70~6.60	
Junction Capacitance	C _j	f = 100kHz, V _D = 0V, OSC = 50mV	TYP 13	pF
Thermal Resistance	θ _{ja}	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	



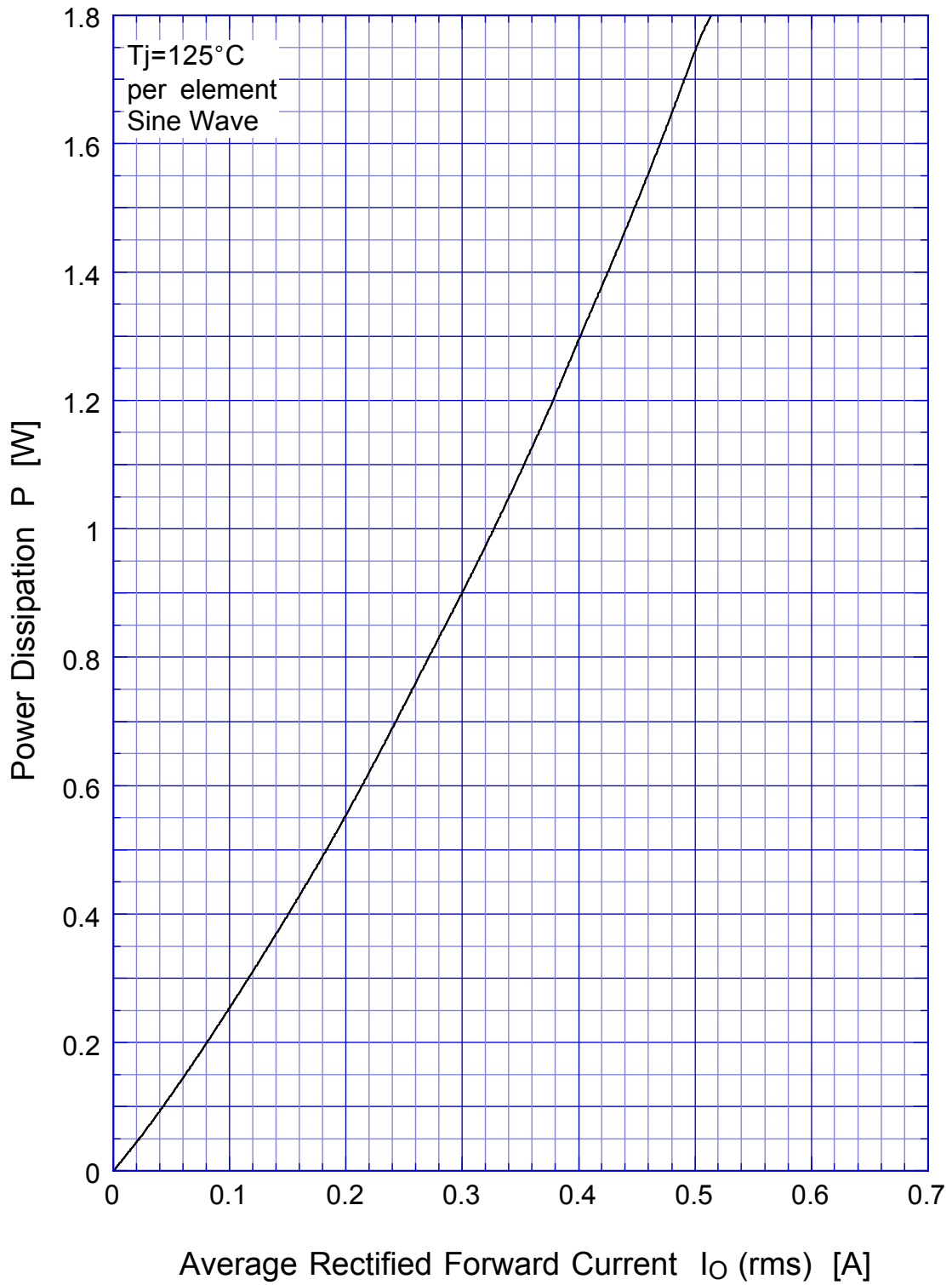
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Forward Voltage



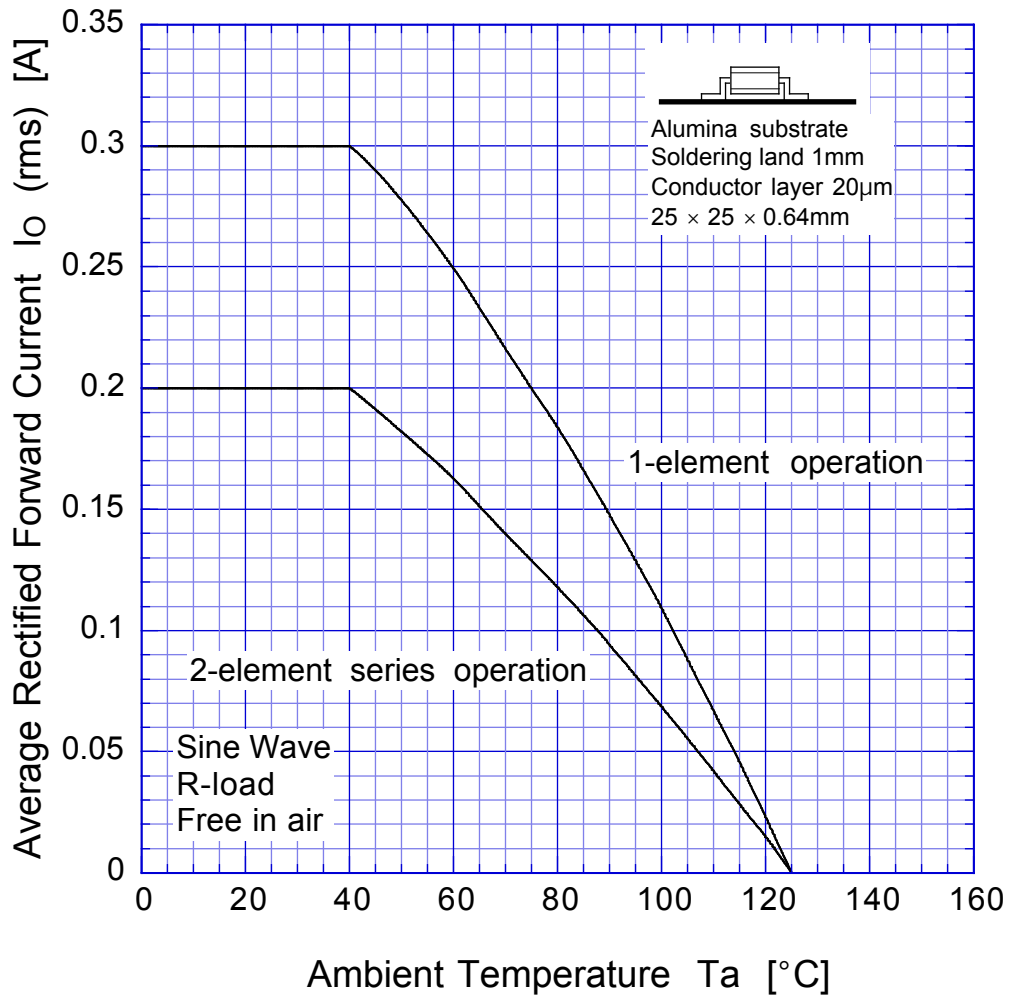
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Forward Power Dissipation



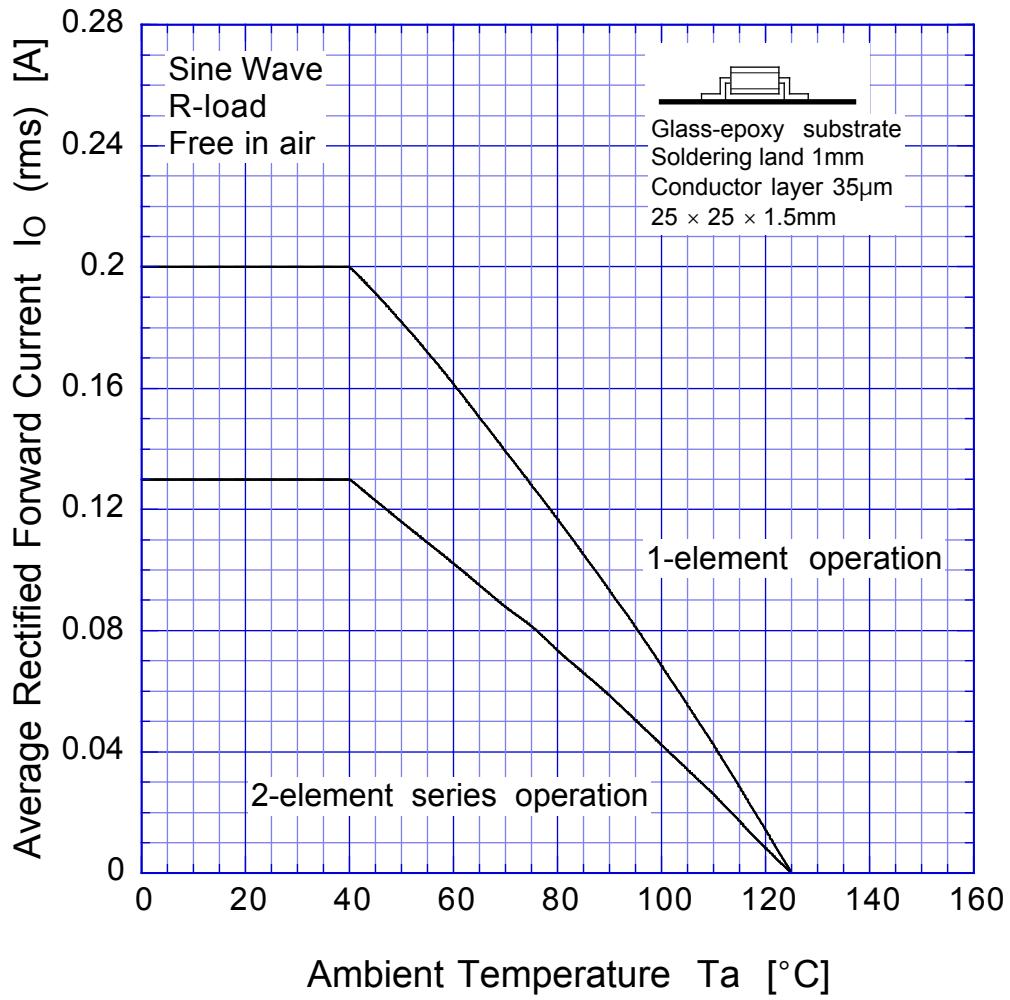
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Derating Curve



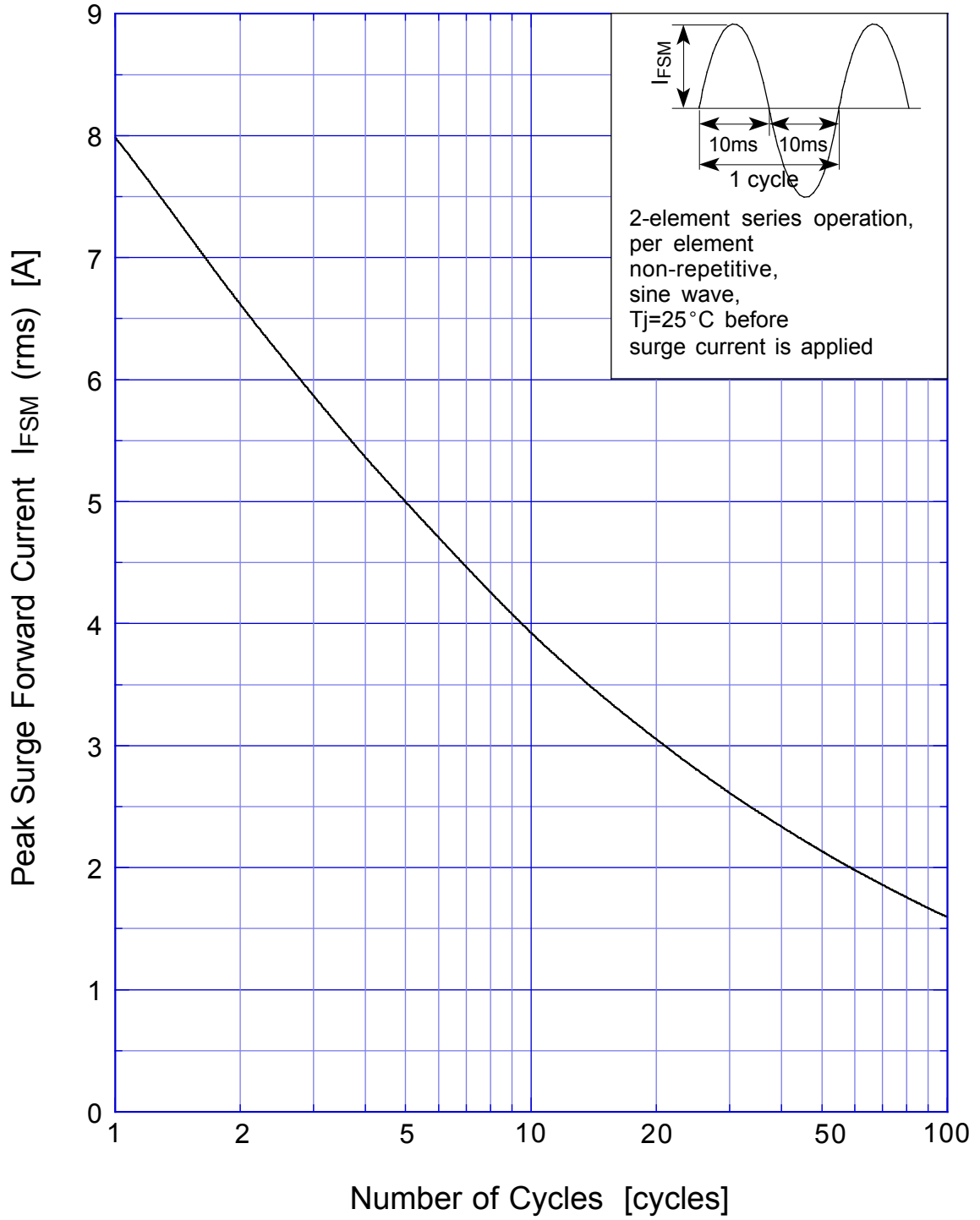
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Derating Curve



VR YA6

Peak Surge Forward Capability



VRYA6 Junction Capacitance

