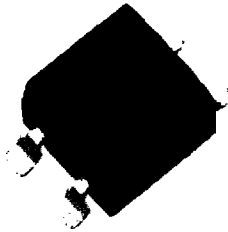
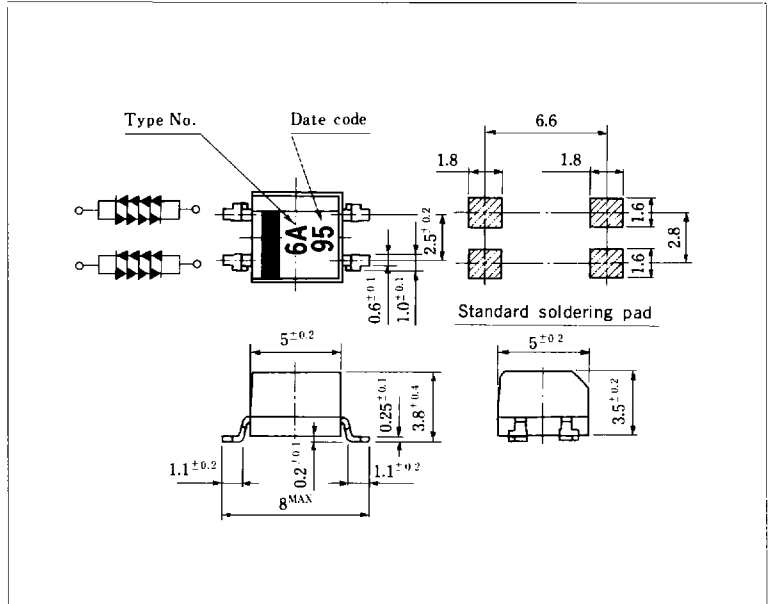


VR YA6



OUTLINE DIMENSIONS



RATINGS

Absolute Maximum Ratings

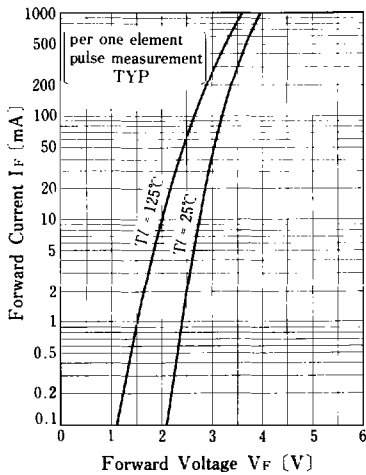
Item	Symbol	Conditions			Ratings	Unit
Storage Temperature	T <sub>stg</sub>				-30~125	C
Junction Temperature	T <sub>j</sub>				125	C
Average Rectified Forward Current	I <sub>o</sub>	Ta = 40°C Sine wave R-load Commercial frequency	On alumina substrate	1 element operation	310	mArms
				2 elements operation	200	
			On glass-epoxi substrate	1 element operation	200	
				2 elements operation	130	
Peak Surge Forward Current	I <sub>FSM</sub>	50Hz Sine wave 10 × 200μs 10 × 1000μs	Non-repetitive	2 elements series operation	8	Arms
					65	A
					30	

Electrical Characteristics (T<sub>l</sub> = 25°C)

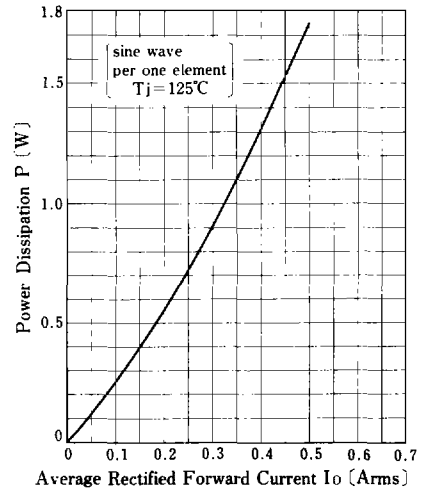
Item	Symbol	Conditions	Element Operation	Rating	Unit	
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> = 1mA I <sub>F</sub> = 10mA I <sub>F</sub> = 70mA	1 element	2.05~2.55	V	
			2 elements series	4.10~5.10		
			1 element	2.50~3.00		
			2 elements series	5.00~6.00		
			1 element	2.85~3.35		
			2 elements series	5.70~6.60		
Junction Capacitance	C <sub>j</sub>	f = 100kHz V <sub>i</sub> = 0V OSC = 50mV		TYP 13	pF	
Thermal resistance	θ <sub>ja</sub>	Junction to ambient	On alumina substrate	1 element operation	MAX 90	C/W
			On glass-epoxi substrate	1 element operation	MAX 150	
				2 elements operation	MAX 250	

CHARACTERISTIC DIAGRAMS

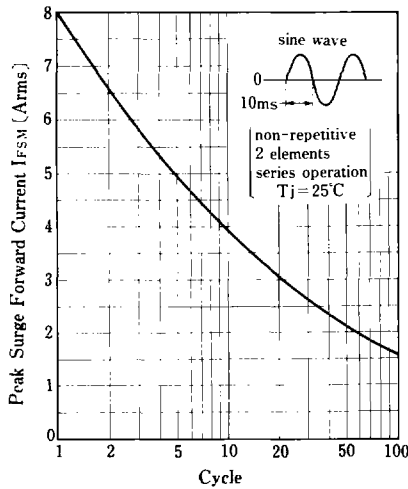
Forward Voltage



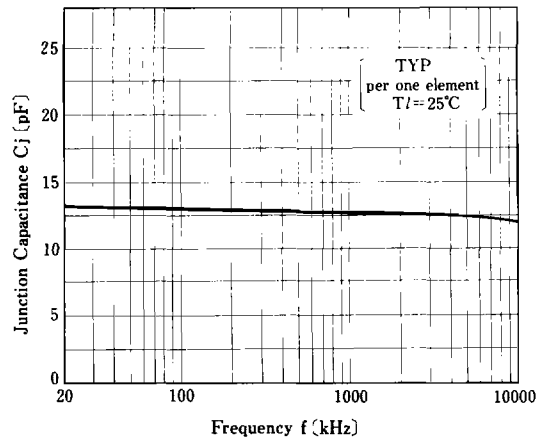
Power Dissipation



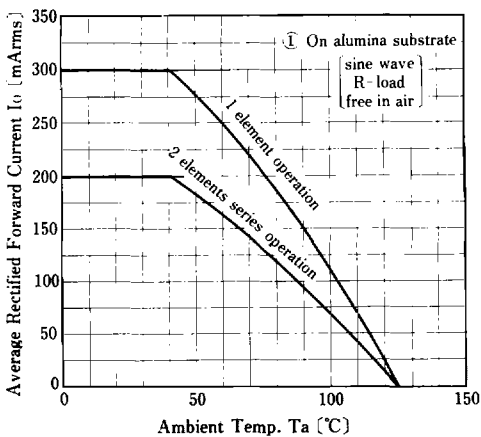
Peak Surge Forward Current



Junction Capacitance



Derating Curve Ta-I<sub>o</sub>



	①	②
substrate size	25 × 25mm	
soldering land	1mm	
conductor layer	20μm	35μm
substrate thickness	0.64mm	1.5mm

Derating Curve Ta-I<sub>o</sub>

