

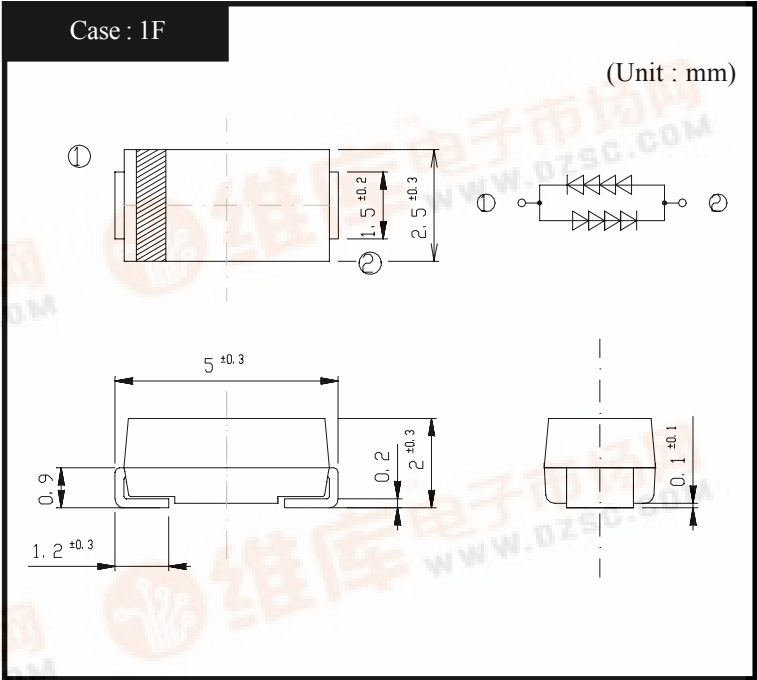
SHINDENGEN

Varistor

SMD

VR61F1

OUTLINE DIMENSIONS



RATINGS

●Absolute Maximum Ratings

Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-55~150	℃
Junction Temperature	Tj		150	℃
Average Rectified Forward Current	I _O	Ta = 25℃, Sine wave, R-load, Commercial frequency, On alumina substrate	0.37	Arms
		Ta = 25℃, 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

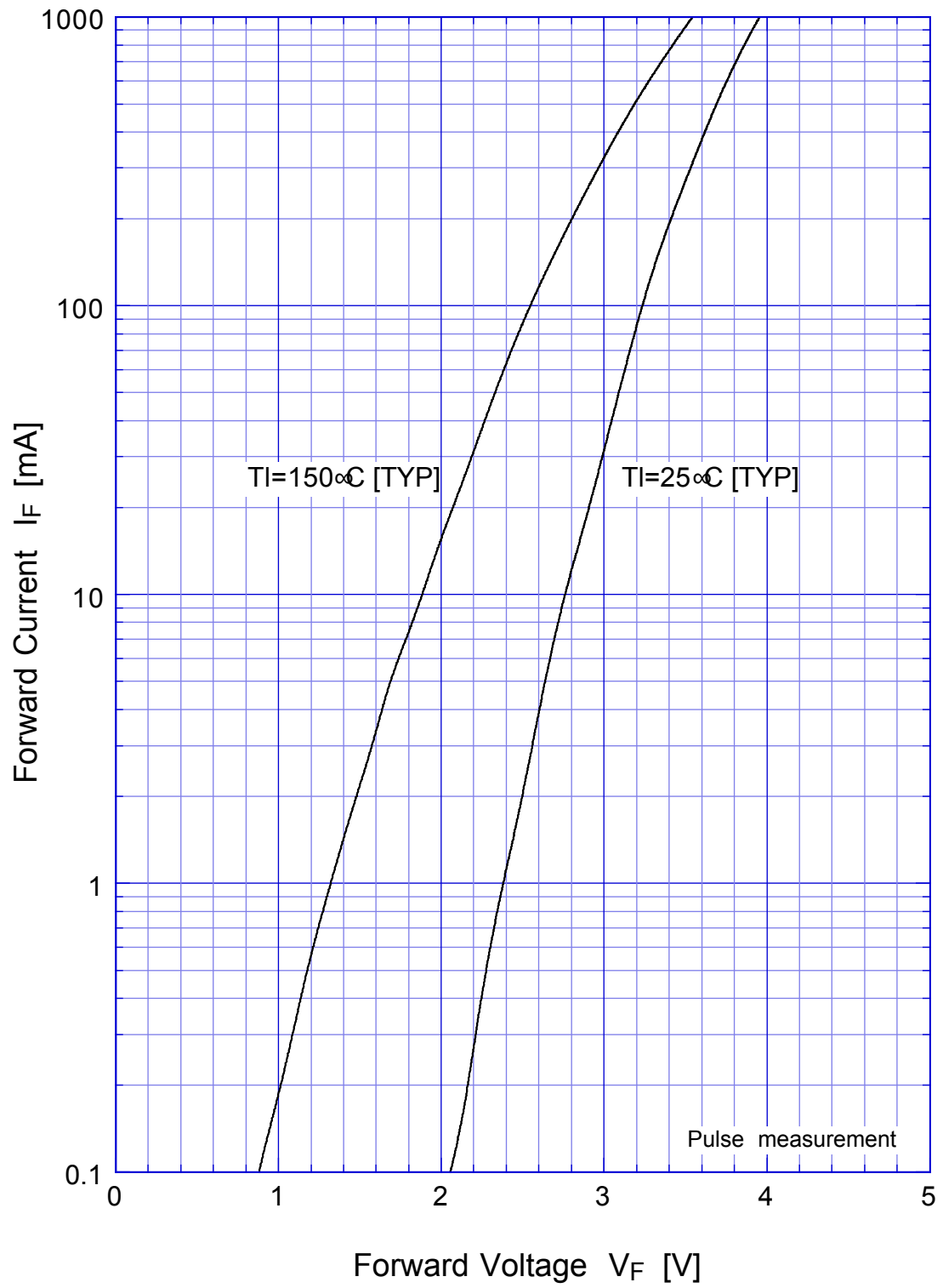
●Electrical Characteristics (Tl=25℃)

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	℃/W
		Junction to ambient, On glass-epoxy substrate	MAX 157	

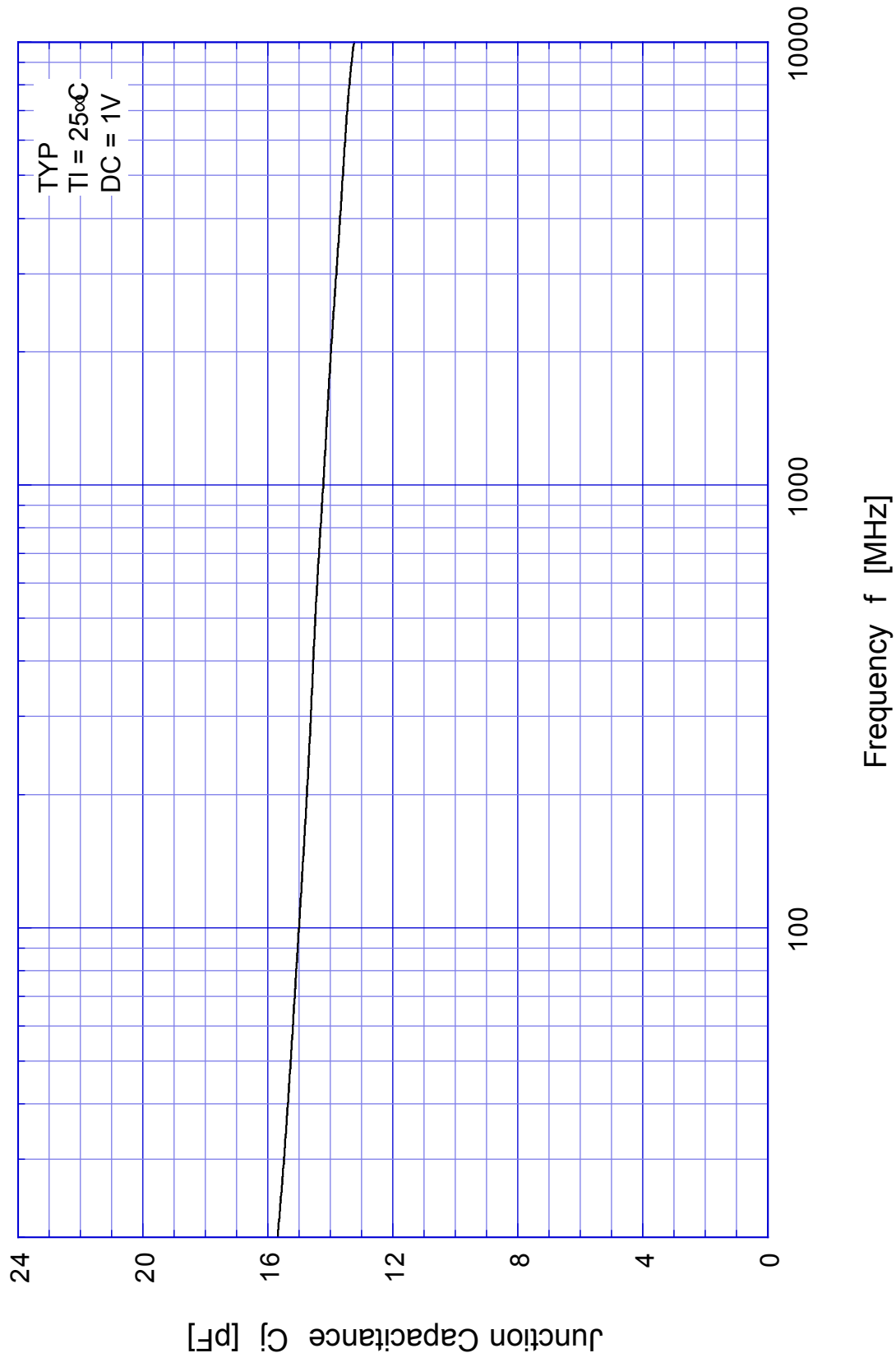


VR-61F1

Forward Voltage

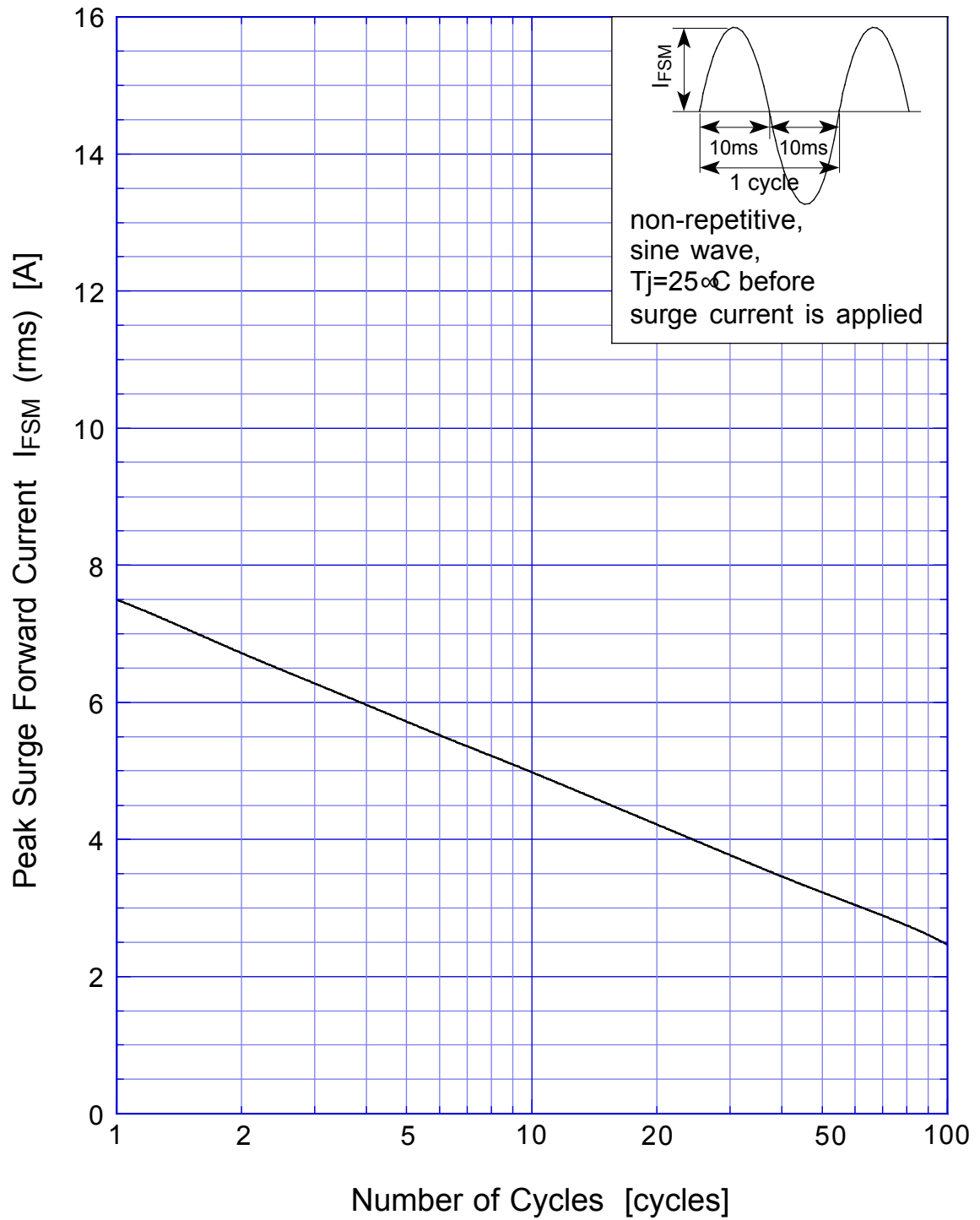


VR-61F1 Junction Capacitance

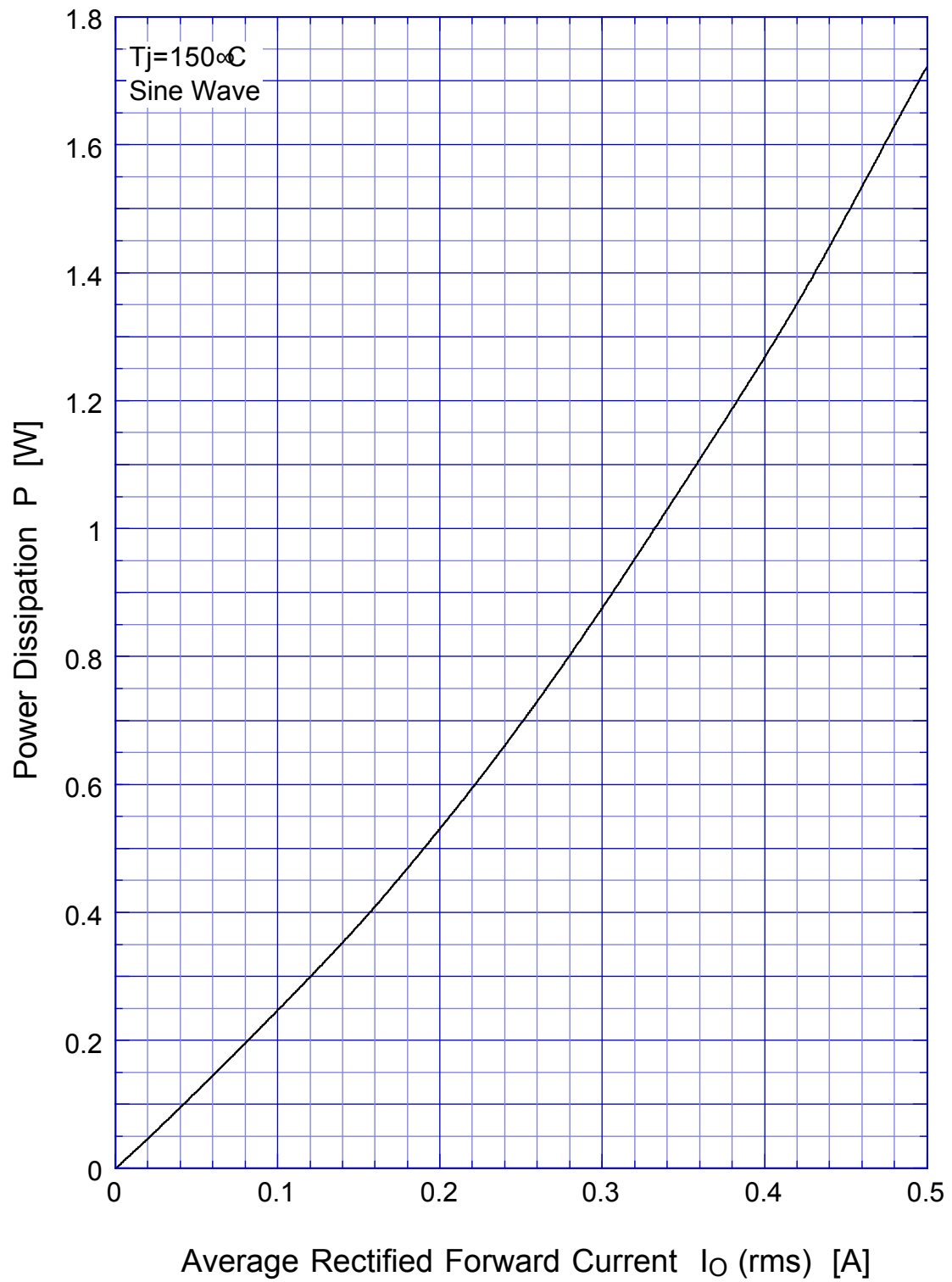


VR-61F1

Peak Surge Forward Capability



VR-61F1 Forward Power Dissipation



VR-61F1

Derating Curve

