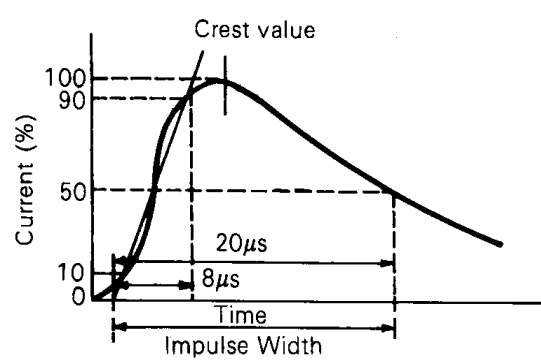




TRANSIENT/SURGE ABSORBER

TRANSIENT VOLTAGE SURGE SUPPRESSORS

Performance Characteristics (Electrical)

Characteristics		Test Methods/Description	Specifications
Standard Test Condition		Environmental conditions under which every measuring is done without doubt on the measuring results. Unless specially specified, temperature, relative humidity are 5 to 35°C, 45 to 85% RH.	—
Varistor Voltage		The voltage between two terminals with the specified measuring current C mA DC applied is called Vc or VcmA. The measurement shall be made as fast as possible to avoid heat affection	To meet the specified value
Maximum Allowable Voltage		The maximum sinusoidal RMS voltage or maximum DC voltage that can be applied continuously in the specified environmental temperature range.	
Clamping Voltage		The maximum voltage between two terminals with the specified standard impulse current (8/20 μs) illustrated below applied. 	
Rated Power		The power that can be applied in the specified ambient temperature	
Maximum Energy		The maximum energy within the varistor voltage change of ±10% when one impulse of 2 ms or 10/1000μs is applied.	
Maximum Peak Current (Withstanding Surge Current)	2 times	The maximum current within the varistor voltage change of ±10% with the standard impulse current (8/20μs) applied two times with an interval of 5 minutes.	
	1 time	The maximum current within the varistor voltage change of ±10% with the standard impulse current (8/20μs) applied one time.	
Temperature Coefficient of Varistor Voltage		$\frac{V_c \text{ at } 85^\circ\text{C} - V_c \text{ at } 25^\circ\text{C}}{V_c \text{ at } 25^\circ\text{C}} \times \frac{1}{60} \times 100 (\%/^\circ\text{C})$	-0.05%/°C max
Capacitance		Capacitance shall be measured at 1 KHz±10%. 1 Vrms max. 0V bias and 20±2°C	To meet the specified value
Dissipation Factor		Dissipation Factor shall be measured at 1 KHz±10%. 1 Vrms max. 0V bias and 20±2°C	
Withstanding Voltage (Body Insulation)		The specified voltage shall be applied both terminals of the specimen connected together and metal foil closely wrapped round its body for 1 minute. Electrical breakdown shall be examined.	
		Classification (Nominal varistor voltage)	Test Voltage (AC)
		V0.1 mA, V1 mA ≤ 300V	1000 Vrms
		V0.1 mA, V1 mA > 300V	1500 Vrms

Note:

Varistor voltage change of forward direction shall be measured in the test of uni-pole surge life and DC load life.