

Thermal Fuse & MOV (TFMOV)

Description

Thermal Fuse & MOV (TFMOV) is a new patented product in the field of surge protection. TFMOV is a fail-safe device, which integrated a disk varistor and a Thermal Fuse in a single package. The Thermal Fuse is designed to disconnect the MOV from the circuit, in case of MOV's failure. Because the MOV might thermally run away due to the increasing leakage current, or burn and burst in the event of a short-circuit fault.

Functional Diagram



Electrical Characteristics (@ 25°C Unless Otherwise Specified)

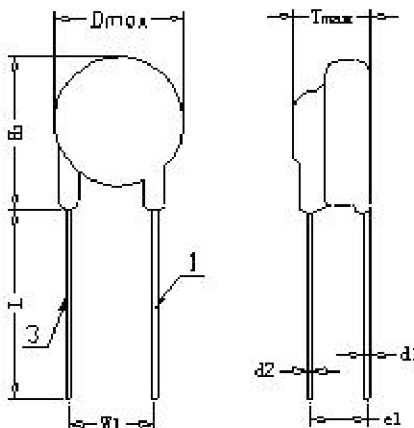
Symbol	Parameter	Value	Units
T_F	Fuse temperature	146	°C
T_O	Operating temperature	-40 to +85	°C
T_S	Storage Temperature Range	-40 to +100	°C
T_L	Hand soldered temperature / Time	265/3	°C/s

Electrical Characteristics (@ 25°C Unless Otherwise Specified)

Part Number	Maximum Continuous Operating Voltage		Varistor Voltage @1mA dc		Clamping Voltage (Max)		Maximum Peak Current (8/20 μ s)	Leakage current	Maximum Energy (J)	Typical Capacitance (Reference)
	AC r.m.s	DC	Min	Max	V_C	I_P	I_{max}	$I_R@$ (75% of V_{1mA} (DC))	2ms	@1kHz
	(V)	(V)	(V)	(V)	(V)	(A)	(A)	(μ A)	(J)	(pF)
47G704NWE	300	385	423	517	775	50	4500	≤ 10	125	5500

Thermal Fuse & MOV (TFMOV)

Package Outline & Dimensions

Physical parameters		Unit: mm
	D (max.)	16.5
	H2 (max.)	23
	T (max.)	10.1
	L (min)	15.0
	W1 (±1.0)	10.5
	e1 (max)	5.1
	d1 (±0.1)	0.8
	d2 (±0.1)	0.5
	Lead wire	Tinning copper wire
	R	Comply with ROHS Directive
Coating	Blue insulated epoxy resin	Weight, g 6.0

Packing	☒	Bulk	200pcs/bag	1000pcs/box	2000pcs/carton
	☐	Tape&Reel	---pcs/reel	-----pcs/box	-----pcs/carton
	☐	Ammopack	---pcs/bag	-----	-----pcs/carton