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TE Connectivity Raychem Circuit Protection MLV1206-700K

For any questions, you can email us directly: <u>sales@integrated-circuit.com</u>



308 Constitution Drive Menlo Park, CA 94025-1164 Phone: 800-227-4856 www.circuitprotection.com	Multi Layer Varis Overvoltage Protection Raychem Circuit Protection	n Device	PRODUCT: MLV1206-700K DOCUMENT: SCD 26512 PCN : RF0772 REV LETTER: D REV DATE: AUGUST 10, 2007 PAGE NO.: 1 OF 4
	b help protect integrated circuits		multiple layers of Zinc Oxide, with electrodes ensitive equipment. Their small size is ideal
Cost efficient assemResistance to standa	o ,.	· ·	Electrical Over Stress) events and transients ssembly solderability
FEATURES Bidirectional clampin Compatible with star Low and stable leaks Quick response time High transient currer RoHS Compliant	ndard surface mount methods age current e (<1ns)	Inner Electroo	Metal Oxide 100% Ag Layer 100% Ni Barrier Layer 100% Sn Plated

APPLICATIONS

Protection of data and power lines in:

- Computer I/O ports and interfaces •
- Automotive electronic circuits •
- **Telecom circuits** •
- Industrial instrumentation •

MATERIALS INFORMATION

ROHS Compliant

Directive 2002/95/EC Compliant

ELV Compliant Directive 2000/53/EC Compliant







² Tyco Electronics

Multi Layer Varistor Overvoltage Protection Device

PRODUCT: MLV1206-700K

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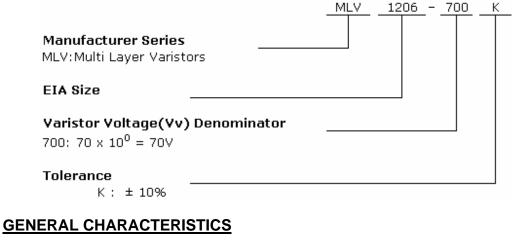
Raychem Circuit Protection Products

Ratings @ (25± 5°C)

	Varistor Voltage		mum Voltage	Clamping Voltage	Max Peak Current	Max Transient Energy	Typical Capacitance
Symbol	Vv	V _{RMS}	V _{DC}	Vc	I _{max}	W _{max}	Cp ¹
Units	V	V	V	V	А	J	pF
Test Conditions	@ 1mA DC	<50µA	<50µA	@ 10A 8/20µ	8/20µs	10/1000µ s	@ 1MHz
MLV1206- 700K	70 ± 10 %	40	56	120	200	1.0	180

Note 1: Device capacitance measured with zero volt bias and 1 Vrms amplitude

PART NUMBERING



Operating Temperature: -55°+125°C

Storage Temperature:

-55°+150°C

ENVIRONMENTAL CHARACTERISTICS

Characteristics	Specifications	Test Conditions
Bias Humidity	Δ Vv / Vv \leq ± 10%	90%RH, 40°C, maximum working Voltage V _{DC} , 1000 hours
Thermal Shock	Δ Vv / Vv \leq ± 10%	-55°C to 125°C, 30 min. cycle, 5 cycles
Full Load Voltage	Δ Vv / Vv \leq ± 10%	Maximum working Voltage V _{DC} , 125°C, 1000 hours
Solderability	95% Coverage	230°C, 2s
Solder Heat Resistance	90% Coverage	260°C, 10s



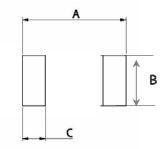
Ŧ PRODUCT: MLV1206-700K **Tyco Electronics Multi Layer Varistor** DOCUMENT: SCD 26512 **Overvoltage Protection Device** PCN : RF0772 308 Constitution Drive **REV LETTER: D** Menlo Park, CA 94025-1164 REV DATE: AUGUST 10, 2007 Phone: 800-227-4856 PAGE NO.: 3 OF 4 **Raychem Circuit Protection Products** www.circuitprotection.com **DIMENSIONS** В С

Drawing Not To Scale

	length A		Height B		Terminal Width C		Width D	
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
mm:	3.0	3.4		1.7	0.25	0.75	1.4	1.8
in*:	(0.118)	(0.134)		(0.067)	(0.01)	(0.03)	(0.06)	(0.07)
	* Pounded off approximation							

Rounded off approximation

RECOMMENDED PAD LAYOUT



	А	В	С		
mm:	4.06	1.65	1.02		
in:*	(0.160)	(0.065)	(0.040)		
* Rounded off approximation					



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Multi Layer Varistor Overvoltage Protection Device

Raychem Circuit Protection Products

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308 Constitution Drive

STORAGE CONDITION

Storage time: 12 months max

Storage temperature: 5 to 40°C

Relative humidity: 65% max

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