

## Specification Status: Released

### Operating Conditions at 20°C:

Maximum Continuous Operating Voltage ( $V_{mco}$ ): 240V<sub>ac</sub>

### Fault Ratings at 20°C:

Maximum Limited Duration Voltage ( $V_{ldf}$ ): 415V<sub>rms</sub>

Maximum Limited Duration Current ( $I_{ldf}$ ): 40A

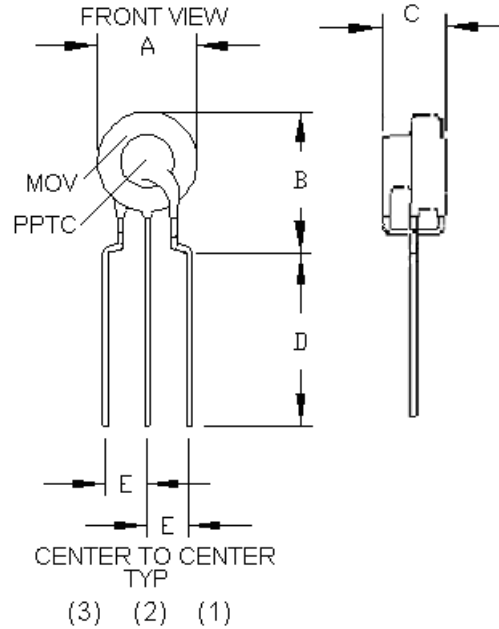
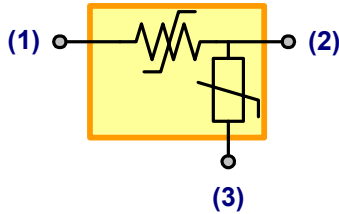
### Lead Material:

22 AWG Sn-Plated Copper (0.64 mm [0.025"] nominal diameter)

### Marking (on MOV side):

Manufacturer's Mark  
**XC431** Part Identification  
 Lot Identification

### Electrical Schematic:



**TABLE I. DIMENSIONS:**

	A		B		C		D		E
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	NOM
mm:	--	12.0	--	17.0	--	7.4	8.5	11.5	5.1
in.*	--	(0.47)	--	(0.67)	--	(0.29)	(0.34)	(0.45)	(0.20)

\*Rounded off approximation

**TABLE II. PPTC-SECTION (TERMINALS 1-2) PERFORMANCE RATINGS @ 20°C:**

HOLD CURRENT (A)	TRIP CURRENT (A)	RESISTANCE (Ω)†			TIME TO TRIP† (s) @ 1A	
		R MIN	R MAX	R <sub>1 MAX</sub> *	TYP	MAX
0.15	0.30	6.5	14.0	16.0	0.9	3

\*Maximum device resistance at 20°C measured 1 hour post trip.

† Corresponds to operations below varistor switch voltage.

**TABLE III. MOV-SECTION (TERMINALS 2-3) PERFORMANCE RATINGS @ 20°C:**

VARISTOR VOLTAGE @ 1mA		DC RESISTANCE @ 100V	MAXIMUM CLAMPING VOLTAGE @ 25A	RATED WATTAGE
DC (V)	TOLERANCE	(MΩ)	(V)	(W)
430	± 10 %	>10	710	0.25

**TABLE IV. SURGE IMMUNITY FOR THE ASSEMBLY (TERMINALS 1-3) @ 20°C:**

Parameter	VOLTAGE – Open Circuit		CURRENT – Short Circuit		Repetitions
	Voltage (V)	Waveform (μs)	Current (A)	Waveform (μs)	
IEC / EN 61000-4-5	2000	1.2 x 50	1000	8 x 20	5 ea. Polarity

**TABLE V. APPLICABLE PART DESCRIPTIONS:**

PART DESCRIPTION	PACKAGING	NOTES
LVM2P-015R10431	Bulk	N/A

Agency Recognitions:  
Reference Documents:  
Precedence:  
Effectivity:  
CAUTION:

N/A  
Raychem PS300 for PPTC section  
This specification takes precedence over documents referenced herein.  
Reference documents shall be the issue in effect on the date of invitation for bid.  
Operation beyond the rated voltage or current may result in rupture, electrical arcing or flame.

## Materials Information

**ROHS Compliant**

Directive 2002/95/EC  
Compliant

**ELV Compliant**

Directive 2000/53/EC  
Compliant

**Pb-Free**

