



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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## 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


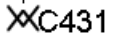

**Insulating Material:**

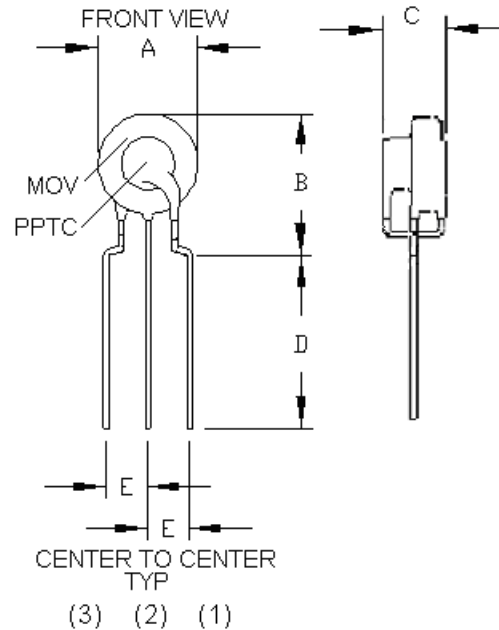
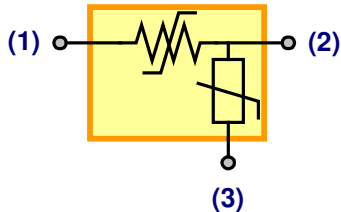
Cured, Flame Retardant Epoxy Polymer (meeting UL94 V-0 requirements)

**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</sub> MAX*	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  
 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**


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