

2Pro Device Series

PRODUCT: LVM2P-035R14431

DOCUMENT:SCD28095 REV LETTER:B

REV DATE: JULY 26, 2016

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Specification Status: Released

Operating Conditions at 20°C:

Maximum Continuous Operating Voltage (V_{mco}): 240V_{ac}

Fault Ratings at 20°C:

Maximum Limited Duration Voltage (V_{ldf}): 400V_{rms} Maximum Limited Duration Current (I_{ldf}): 40A

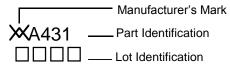
Insulating Material: Cured, Flame Retardant Epoxy Polymer

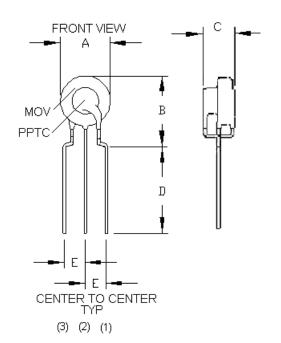
(meeting UL94 V-0 requirements)

Lead Material:

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

Marking (on MOV side):





Electrical Schematic:

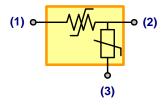


TABLE I. DIMENSIONS:

	Α		E	3	C D		E		
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	NOM
mm:		16.0		21.0		7.4	3.0	5.0	5.1
in:*		(0.63)		(0.83)		(0.29)	(0.12)	(0.20)	(0.20)

*Rounded off approximation

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

HOLD	TRIP	RESISTANCE (Ω)†			TIME TO		
CURRENT	CURRENT				TRIP† (s)		
(A)	(A)				@ 3A		
		R MIN	R MAX	R ₁	TY	MA	
0.35	0.75			MAX*	Р	X	
		1.4	2.2	2.8	0.5	2.0	

^{*}Maximum device resistance at 20°C measured 1 hour post trip.

[†] Corresponds to operations below varistor switch voltage.



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

VARISTOR VOLTAGE @ 1mA		DC RESISTANCE @ 100V	MAXIMUM CLAMPING VOLTAGE	RATED WATTAGE
		(77.5)	@ 50A	
DC	TOLER	(MΩ)	(V)	(W)
(V)	ANCE			
430	± 10 %	>10	710	0.6

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

	VOLTAGE – Open Circuit		CURRENT – Short Circuit			
Parameter	Volta ge (V)	Wav eform (µs)	Cu rrent (A)	Wav eform (µs)	Rep etitions	
IEC / EN 61000-4-5	20 00	1.2 x 50	10 00	8 x 20	5 ea. Polarity	

TABLE V. APPLICABLE PART DESCRIPTIONS:

PART DESCRIPTION	PACKAGING	NOTES
LVM2P-035R14431	Bulk	N/A

Agency Recognitions: N/A

Reference Documents: PS300 for PPTC section

Precedence: This specification takes precedence over documents referenced herein.

Effectivity: Reference documents shall be the issue in effect on the date of invitation for bid.

CAUTION: Operation beyond the rated voltage or current may result in rupture, electrical arcing or flame.

Materials Information

ROHS Compliant ELV Compliant Pb-Free Halogen Free*

Directive 2002/95/EC Compliant Directive 2000/53/EC Compliant





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^{*} Halogen Free refers to: Br≤900ppm, Cl≤900ppm, Br+Cl≤1500ppm.