Standard MOV Varistor Square, 25mm

multicomp PRO





Description

Metal Oxide Varistor (MOV) as one nonlinear resistance element is mainly made of zinc oxide (ZnO), which has very high surge capacity and big nonlinear coefficient. Below the threshold voltage, its resistance is very high, nearly no current flows through, but above the threshold voltage, the resistance reduces sharply, huge current can be discharged. Due to this characteristic, varistor as a protection component in electronic and electrical equipment can absorb abnormal over-voltage and lightning surge.

Varistor is with High Surge Current Density, Low Clamping Voltage, and Good Surge Capacity.

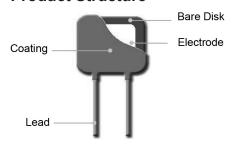
Approvals

UL1449 4th Edition TUV EN 61051-1:2008 IEC 61051-1:2007 IEC 61051-2:1991+A1 IEC 61051-2-2:1991 Annex Q of IEC 60950-1:2005+A1+A2

Applications

- Power Supplies
- · Home Electrical Appliances
- · Industrial Devices
- Surge Protectors
- Telecom Devices

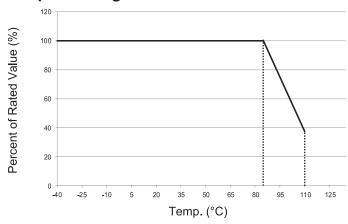
Product Structure



Features

- · Epoxy Resin Coating
- · Silicone Resin Coating
- Low Leakage Current
- Bidirectional and Symmetrical V/I Characteristics
- · Operating Temperature Range
- Low Temperature: -40°C
- High Temperature: +85°C to +105°C

Temp. Derating Curve



For Normal Temp. Series

Note:

When ambient Temp. exceeds 85°C, the peak surge current and energy rating should be reduced as shown in the left curve.

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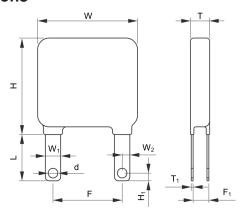
Standard MOV Varistor Square, 25mm



General Technical Data

Item	Value	Unit		
Operating Temperature	-40 to +85	°C		
Storage Temperature	-40 to +125	°C		
Voltage Proof	≥2500	Vac		
Insulation Resistance	≥100	МΩ		

Dimensions



Part Number	L	W (Max.)	W1	W2	H (Max.)	H1	T (Max.)	T1	d	F	F1
MPV25S241KNK	12 ±3	28	4 ±0.05	2 ±0.05	30	2 ±0.05	4.6	0.5 ±0.05	2.5 ±0.05	18 ±0.6	1.4 - 2.9
MPV25S431KNK							5.8				2 - 4

Specification Table

Part Number	Conti Oper	ax. nuous ating age	Volt	stor age nA DC	Volt	nping tage ax.)	Discl Cur	ax. harge rent 0 µs)	Max. Energy (10/1000 μs)	Typical Capacitance (For reference only) @1 kHz	Agency Approvals				
	Vac	Vdc	Min.	Max.	vc	IP	In	lmax	(1)	(.5)					
	(V)	(V)	(V)	(V)	(V)	(V)	(kA)		(J)	(3)	(pF)	UL	TUV		
MPV25S241KNK	150	200	216	264	395	175	10	25	302	2800		V			
MPV25S431KNK	275	350	387	473	710	1/5	10 2	10	10	10	25	575	1600] ']	V

^{√:} Approved

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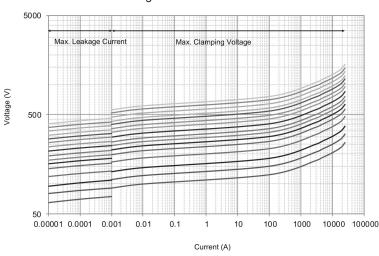


Standard MOV Varistor Square, 25mm



Performance Curve

Max. Peak Current Derating Curves



Part Number Table

Description	Part Number			
Varistor, MOV, 395V, Disc 25mm	MPV25S241KNK			
Varistor, MOV, 710V, Disc 25mm	MPV25S431KNK			

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