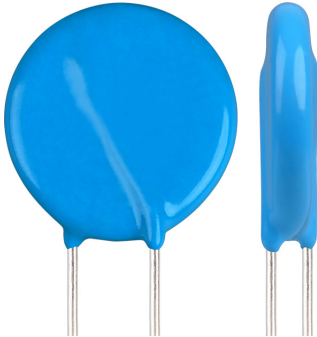


Standard MOV Varistor

Round, 25mm

multicomp PRO

**RoHS
Compliant**



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

UL 1449 4th Edition
TUV EN 61051-1:2008
IEC 61051-1:2007
IEC 61051-2:1991
IEC 61051-2-2:1991
Annex Q of IEC 60950-1:2005+A1:2009+A1:2013

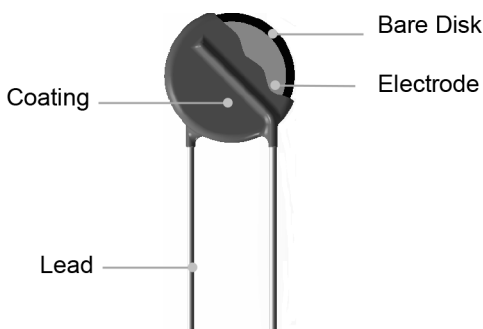
Features

- 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

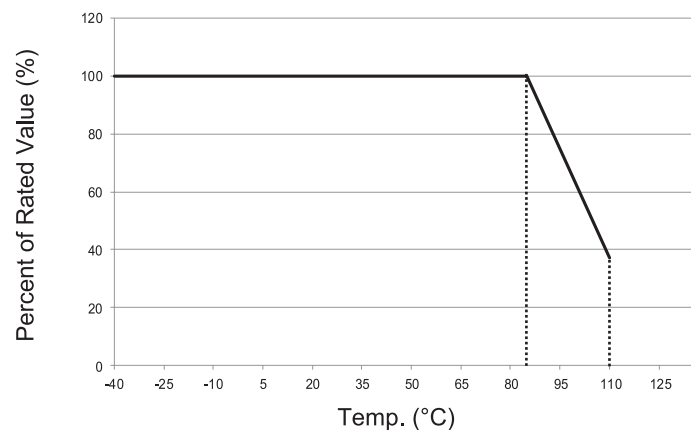
Applications

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

Product Structure



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.

Newark.com/multicomp-pro
Farnell.com/multicomp-pro
sg.element14.com/b/multicomp-pro

multicomp PRO

Standard MOV Varistor

Round, 25mm

multicomp PRO

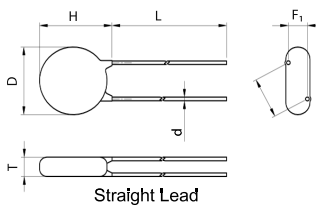
General Technical Data

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

Dimensions

Model	L (Min.)	H (Max.)	T (Max.)	D (Max.)	d	F	F ₁	A (Max.)
MPV25D102KNK	20	32	10.5	28	1.2 ±0.05	10 ±0.6	6.1 - 8.1	35
MPV25D821KNK			9.4				5 - 7	

Diagram



Specification

Model	Max. Continuous Operating Voltage		Varistor Voltage @1 mA DC		Clamping Voltage (Max.)		Max. Discharge Current (8/20 μs)		Max. Energy (10/1000 μs)	Typical Capacitance (For reference only) @1 kHz	Agency Approvals	
	Vac	Vdc	Min.	Max.	VC	IP	I _n	I _{max}	(J)	(pF)	UL	TUV
	(V)	(V)	(V)	(V)	(V)	(V)	(kA)					
MPV25D102KNK	625	825	900	1100	1650	150	10	20	690	660	√	√
MPV25D821KNK	510	670	738	902	1355				520	830		

√ : Approved

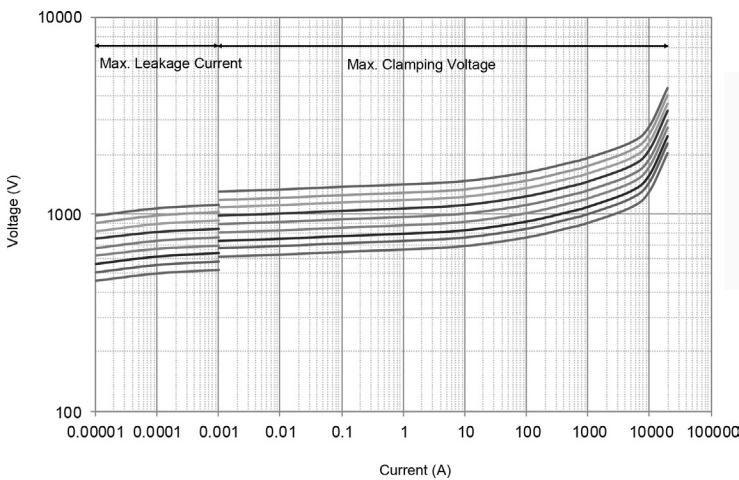
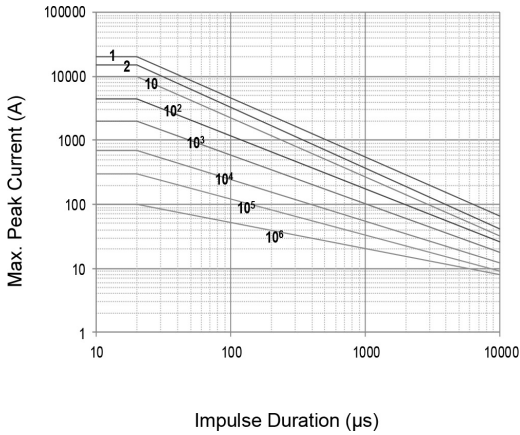
Standard MOV Varistor

Round, 25mm



Performance Curve

Max. Peak Current Derating Curves



Part Number Table

Description	Part Number
Varistor, MOV, 1.65KV, Disc 25mm	MPV25D102KNK
Varistor, MOV, 1.355KV, Disc 25mm	MPV25D821KNK

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