

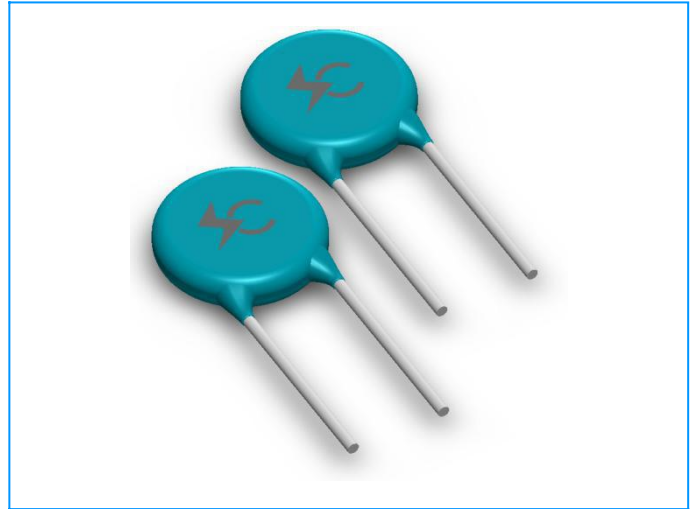
Radial Lead Metal Oxide Varistor(MOV)

14D561KJL

Description

The 14D561KJL radial leaded varistors provides an ideal circuit protection solution for lower AC voltage applications by offering higher surge ratings than ever before available in such small discs.

The maximum peak surge current rating can reach up to 8KA (8/20 μ s pulse) to protect against high peak surges, including indirect lightning strike interference, system switching transients and abnormal fast transients from the power source.



Features

- ◆ Wide operating voltage (V1mA) range from 561V
- ◆ Fast responding to transient over-voltage
- ◆ Large absorbing transient energy capability
- ◆ Low clamping ratio and no following-on current
- ◆ Meets MSL level 1, per J-STD-020

Applications

- ◆ Transistor, diode, IC, thyristor or triac semiconductor protection
- ◆ Surge protection in consumer electronics
- ◆ Surge protection in industrial electronics
- ◆ Surge protection in electronic home appliances, gas and petroleum appliances
- ◆ Relay and electromagnetic valve surge absorption

General Characteristics

Material	No Radioactive Material
Operating Temperature	-40°C ~ +85°C
Storage Temperature	-40°C ~ +125°C
Body	Nickel Plated
Leads	Tin Plated
Devices with No lead	Nickel Plated

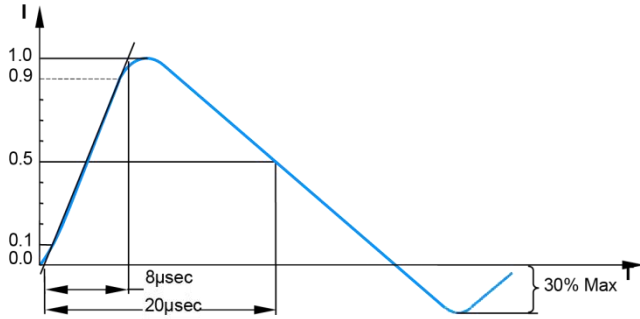
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Specifications – General Characteristics (25±5)

Type Number	Maximum Allowable voltage		Varistor Voltage (V)	Max Withstanding Surge Current (A)	Maximum Energy (10/1000μs) (J)	Rate power (w)	Typ Capacitance (Reference) @1KHZ (pf)
	V _{AC} (V)	V _{DC} (V)					
14D561KJL	350	460	560(504~616)	8000	200	0.6	360

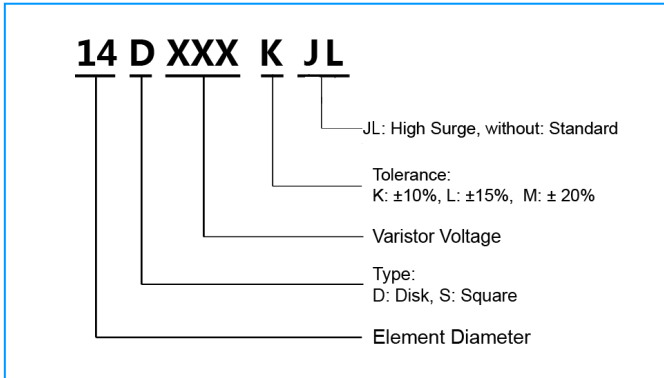
Electrical Rating

Item	Test Condition / Description	Requirement
Maximum Allowable Voltage	The recommended maximum sine wave voltage (RMS) or the maximum DC voltage can be applied continuously.	To meet the specified value
Varistor Voltage	The voltage between two terminals with the specified measuring current 1mA.DC applied is call V _b .	
Maximum Clamping Voltage	The maximum voltage between two terminals with the specification standard impulse current. Applied waveform: 8/20μs 	
Rated Wattage	The maximum average power that can be applied within the specified ambient temperature.	
Energy	The maximum energy within the varistor voltage change of ±10% when one impulse of 10/1000μs. or 2 msec. is applied.	
Withstanding Surge	The maximum current within the varistor voltage change of ±10% with the standard impulse current (8/20μsec.) applied one time	
Varistor Voltage Temp. Coefficient	$\frac{V_b \text{ at } 20^{\circ}\text{C} - V_b \text{ at } 70^{\circ}\text{C}}{V_b \text{ at } 20^{\circ}\text{C}} \times \frac{1}{50} \times 100(\% / ^{\circ}\text{C})$	

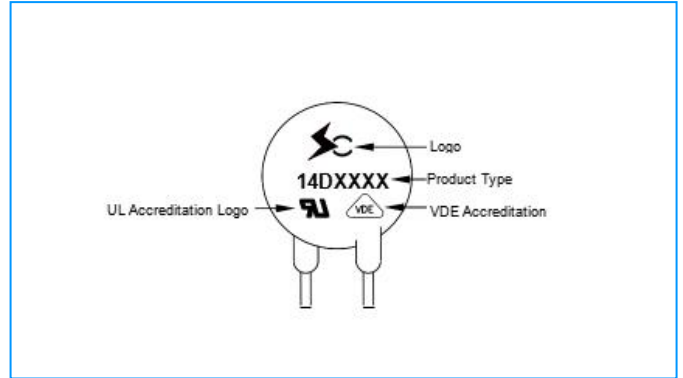
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Part Numbering



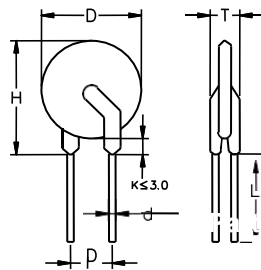
Part Marking



Packaging Information

Part Number	Quantity	Packaging Option	Packaging Specification
14D561KJL	500	Plastic bag	Bulk Pack

Package Dimensions Unit: mm



Symbol	Dimensions
H(max.)	21.0
H1(max.)	20.0
L(min.)	15.0
L1(min.)	15.0
D(max.)	17.0
P(±0.8)	7.5
T(max.)	6.0
d(±0.05)	0.8
d1(±0.05)	0.8