



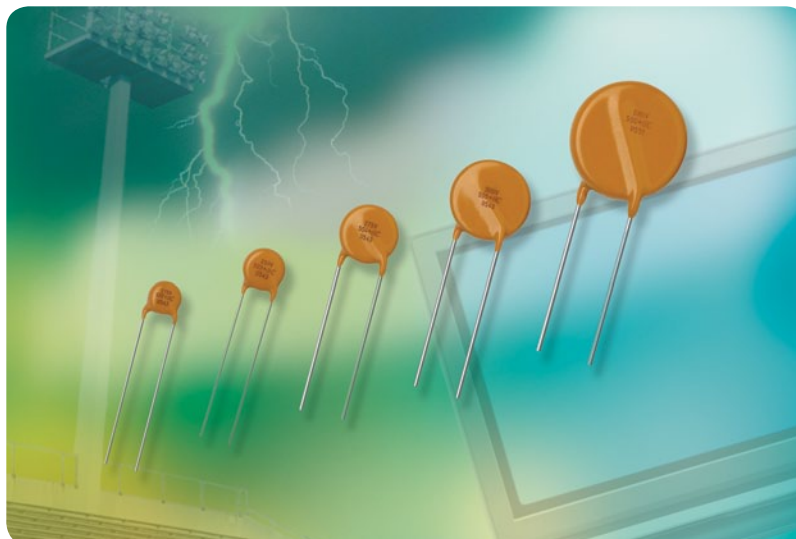
# VARISTORS (MOV)

## Vishay BCcomponents



Resistors - Wide Voltage Range and Energy Ratios

## VDR Metal Oxide Varistors Standard and High Surge Current



### KEY BENEFITS

- Low leakage current
- Wide voltage range and energy ratios
- Low stand-by power
- Very good surge current handling capabilities
- Very good clamping voltage characteristics
- CSA, VDE, UL1414, and UL 1449 edition 3 approvals
- Selected voltage parts in large VDRH size UL recognized for 105°C usage

### APPLICATIONS

- Power supplies
- Electronic lamp ballasts
- Inductive load switching: motors, coils, actuators, transformers, etc.
- Spark suppression
- General protection against induced lightning transients

### RESOURCES

- Datasheets: - <http://www.vishay.com/doc?29081>, <http://www.vishay.com/doc?29082>
- For technical questions contact [nlr@vishay.com](mailto:nlr@vishay.com)
- Sales Contacts: <http://www.vishay.com/doc?99914>



VDE (40002622 + 40013495)



CSA (219833)



UL<sub>us</sub> (E332800)

One of the World's Largest Manufacturers of  
Discrete Semiconductors and Passive Components



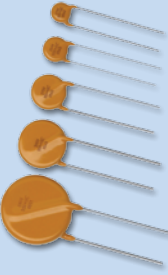
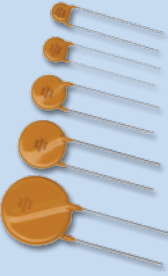


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Product	Part Number	V <sub>RMS</sub> Max (V)	V <sub>DC</sub> Max (V)	V <sub>DC</sub> @ 1 mA (V)	I <sub>max</sub> @ 8/20 μs Non-Repetitive (A)	E <sub>max</sub> @ 10/1000 μs (J)	P <sub>max</sub> (mW)	Ref. Diameter (mm)	Applications	
<b>Standard Series</b> 	<b>VDRS</b>									
	05	14 to 460	18 to 615	22 to 750	100 to 400	0.5 to 21	100	5	For transient and overvoltage protection in: <ul style="list-style-type: none"> <li>• Consumer electronics</li> <li>• Power supplies</li> <li>• Lamp ballasts</li> <li>• Industrial equipment</li> </ul>	
	07	14 to 460	18 to 615	22 to 750	250 to 1200	1.7 to 63	250	7		
	10	14 to 550	18 to 745	22 to 910	500 to 2500	4.3 to 98	400	10		
	14	14 to 550	18 to 745	22 to 910	1000 to 4500	5.4 to 160	600	14		
	20	14 to 680	18 to 895	22 to 1100	2000 to 6500	8.0 to 496	1000	20		
<b>High-Surge Series</b> 	<b>VDRH</b>									
	05	11 to 460	14 to 615	18 to 750	250 to 800	0.7 to 29	100	5		
	07	11 to 510	14 to 670	18 to 820	500 to 1750	1.5 to 60	250	7		
	10	11 to 680	14 to 895	18 to 1100	1000 to 3500	2.6 to 155	400	10		
	14	11 to 680	14 to 895	18 to 1100	2000 to 6000	5.2 to 310	600	14		
	20	11 to 680	14 to 895	18 to 1100	3000 to 10000	13 to 620	1000	20		