

# **MDE Semiconductor, Inc.**

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1-800-831-4881 Email: sales@mdesemiconductor.com Web: www.mdesemiconductor.com

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## **Metal Oxide Varistors**

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### **High Energy Disc Varistor Series**

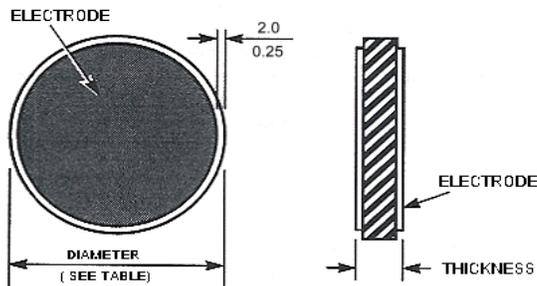
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#### **Metal Oxide Disc Varistors**

The Disc Varistor Series of transient surge suppressors are industrial high-energy disc varistors (MOVs) intended for special applications requiring unique electrical contact or packaging methods provided by the customer. The electrode finish of these devices is solderable and can also be used with pressure contacts. Disc of the same diameter can be stacked.

This series of industrial disc varistors are available in five diameter sizes of 20, 25, 32, 40, and 53, with disc thickness ranging from 1.8mm to 32mm maximum. They offer a wide voltage range from 130 to 750 V<sub>M(AC)RMS</sub>

#### **Bare Disc Dimensions**



#### **Features**

- Provided in Disc Form For Unique Packing by Customer
- Solderable Electrode Finish Options
- Pressure Contacts and/or Disc Stacking May Be Utilized
- Standard Disc Sizes 20mm, 25mm, 32mm, 40mm, and 53mm diameter
- Available Edge Passivation Insulation
- Wide Operating Voltage Range V<sub>m(ac)rms</sub> 130V to 750V.
- High Peak Pulse Current Range I<sub>TM</sub> 20,000A to 70,000A
- Very High Energy Capability W<sub>TM</sub> 200J to 1,800J
- No Derating Up to 85°C Ambient.

Model Size	Disc Diameter			
	Millimeters		Inches	
	Min	Max	Min	Max
20	20.0	22.0	0.797	0.810
25	24.0	26.0	0.945	1.026
32	31.0	33.0	1.220	1.299
40	38.0	40.0	1.496	1.575
53	51.0	53.0	2.008	2.090

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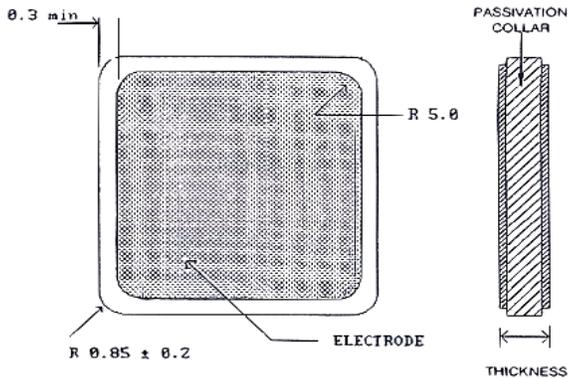
### **High Energy Square Disc Varistor Series**

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#### **Metal Oxide Square Disc Varistors**

The Square Disc Series of transient surge suppressors are varistors (MOVs) in square disc form, intended for special industrial high-energy applications requiring unique electrical contact or packaging methods provided by the customer. The electrode finish of these devices is solderable and can also be used with pressure contacts. Disc may also be stacked.

The square series varistors are 25mm and 34mm devices, with thicknesses ranging from 1.8mm minimum for the 130V device to 7.5mm maximum for the 750V device.



#### **Features**

- Provided in Disc Form For Unique Packing by Customer
- Solderable Electrode Finish Options
- Pressure Contacts and/or Disc Stacking May Be Utilized
- Wide Operating Voltage Range  $V_{M(AC)RMS}$  130V to 750V.
- Peak Pulse Current Capability  $I_{TM}$  40,000A
- High Energy Capability  $W_{TM}$  310J to 1200J
- No Derating Up to 85°C Ambient.

Model Size	Disc Diameter			
	Millimeters		Inches	
	Min	Max	Min	Max
25	24.7	25.4	0.972	1.001
34	33.7	34.4	1.327	1.357