



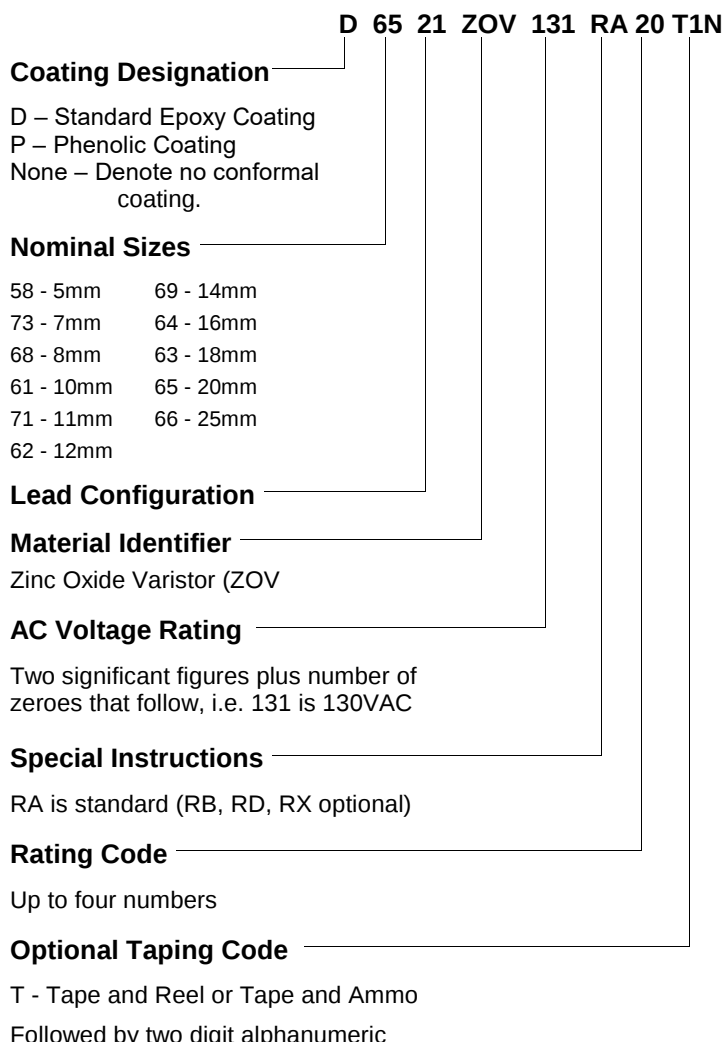
MAIDA STYLE NUMBER D6921ZOV350RA10

MAIDA ITEM NUMBER 01-0816

The Standard Series is our broadest and most comprehensive line of radial-leaded varistors. These components consist of wire leads and have nominal disk diameters from 5mm to 25mm. They are available with maximum continuous operating voltages (MCOV) ranging from 11VAC to 1000VAC (up to 1500VAC upon request). The Standard Series is designed to handle most low and medium power applications requiring through-hole components. Most sizes are available in Tape and Reel and ammo pack.

The Maida Style Number is the typical means to identify our components when ordered. The style number identifies several parameters that are important for the characteristics of the device. An alternative ordering method, if known, is by our Item Number.

The following example is the standard part numbering system when ordering our Standard Series components by the Maida Style Number:

**Electrical Specifications**

Continuous AC Voltage	35 VAC
Continuous DC Voltage	45 VDC
Maximum DC Leakage @ 45 VDC	200 uA
Low Varistor Voltage Limit	50 VDC
High Varistor Voltage Limit	62 VDC
Nominal Varistor Voltage	56 VDC
Current for Varistor Voltage	1 mA
Maximum Clamp Voltage	110 V
Maximum Clamp Voltage Test Current	10 A
Peak Current Rating (1 Pulse)	2000 A
Peak Current Rating (2 Pulse)	1000 A
Energy Rating (8X20us)	16 J
Typical Capacitance	8940 pF
Impulse Response Time	< 50 ns
Minimum Hipot of Coating	2500 VDC
Minimum I.R. of Coating	1000 MΩ
Current/Energy Derating Above 85°C	-2.5 %/°C

Special Notes:**Safety Agency Recognitions**

UL 1449 File Number	E321173
- Tested to Type:	5-0.25kA
C-UL File Number	
VDE File Number	
CSA File Number	
SEV File Number	

MAIDA DEVELOPMENT COMPANY

P.O. Box 3529

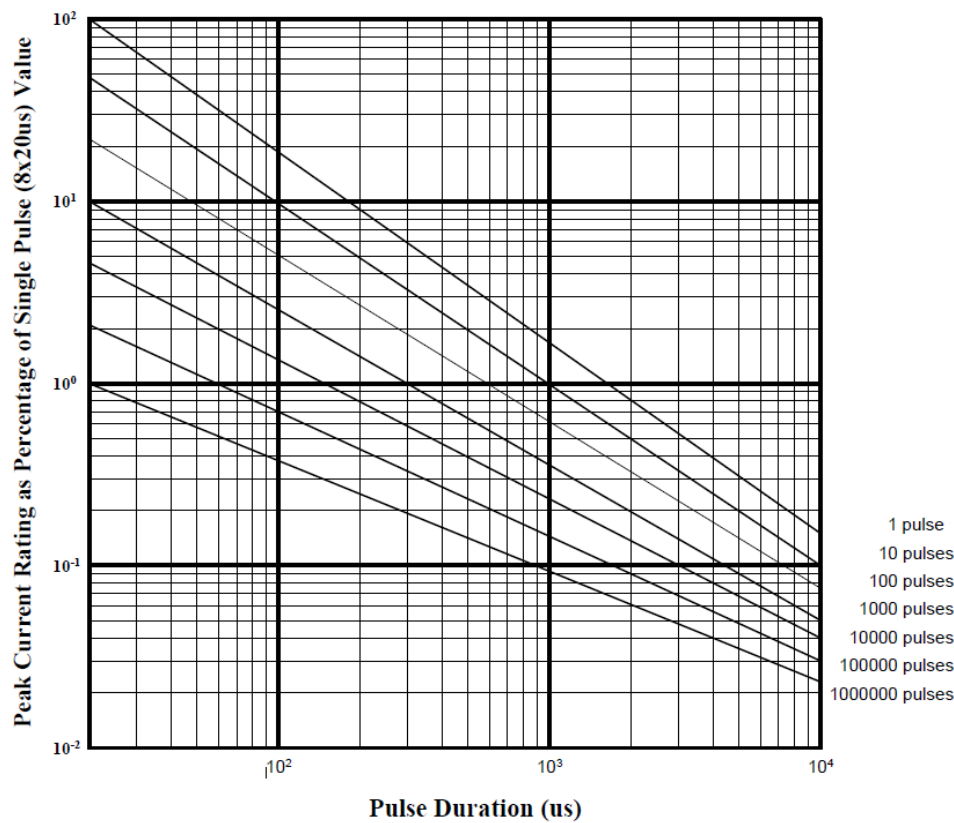
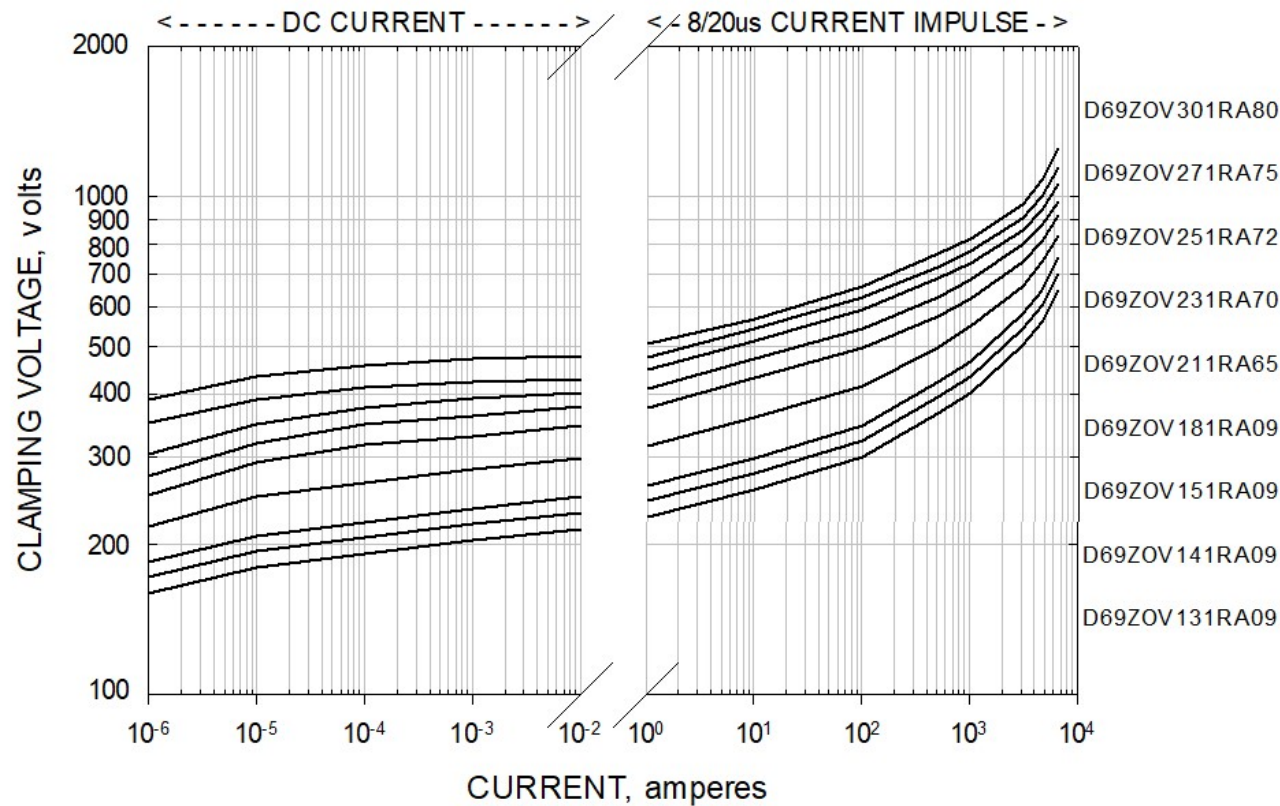
Hampton, Virginia 23663

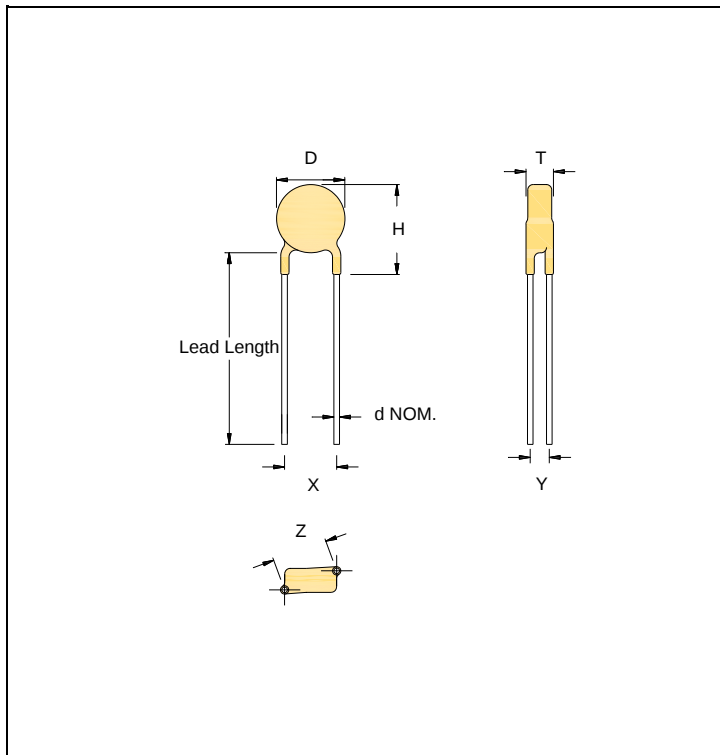
Ph: (757) 723-0785 Fax (757) 722-1194

www.maida.com

Characteristic Graphs

D69 (14mm) SERIES





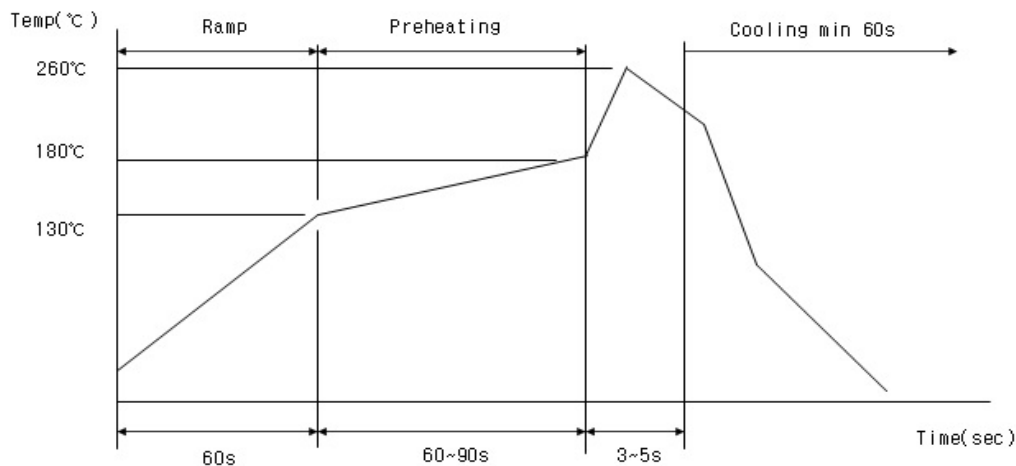
* Contact Maida for a more detailed configuration drawing.

Physical Specifications

Lead Style	110B1
X Nominal	0.3 in.
X Tolerance	0.04 in.
Y Nominal	0.085 in.
Y Tolerance	0.03 in.
Z Nominal	0.312 in.
Z Tolerance	0.04 in.
Lead Length Nominal	1.00 in.
Lead Length Tolerance	min. in.
d Nominal	0.032 in.
Wire Gauge	20 AWG
Minimum Marking	Z350-10UL
Nominal Disk Size	14 mm
D Maximum	0.65 in.
T Maximum	0.199 in.
H Maximum	0.775 in.
Coating Type	EPOXY

Thermal Specifications

Minimum Operating Temperature	-40 °C
Maximum Operating Temperature	85 °C
Varistor Voltage Temperature Coeff	-0.05 %/°C
Minimum Storage Temperature	-50 °C
Maximum Storage Temperature	125 °C
Recommended Solder Temperature	260 °C
Recommended Reflow Temperature	260 °C

Environmental Compliances**Recommended Soldering Profile**

MOV Terminology

TECHNICAL TERM	DESCRIPTION
Operating Temperature	Operating Temperature Range without Derating.
Storage Temperature	Storage Temperature Range without Voltage Applied.
Curent / Energy Derating	Derating of maximum Values when Operated above +85°C
Varistor Voltage Temperature Coefficient	$\frac{V_v \text{ at } 85^{\circ}\text{C} - V_v \text{ at } 25^{\circ}\text{C}}{V_v \text{ at } 25^{\circ}\text{C}} \times \frac{1}{60^{\circ}\text{C}} \times 100$ Where Vv is varistor voltage at 1mADC
Insulation Resistance	Minimum resistance between shorted terminals and varistor surface.
HiPot Encapsulation	Minimum voltage applied for one minute between shorted terminals and varistor surface.
Impulse Response Time	Time lag between application of surge and varistor's "turn-on" conduction state.
DC Leakage Current	Maximum current with specified DC voltage applied.
Applied Voltage - AC	Maximum continuous sinusoidal RMS voltage which may be applied (MCOV).
Applied Voltage - DC	Maximum continuous DC voltage which may be applied.
Transient Energy (Joules)	The maximum energy absorbed with a varistor voltage change of less than $\pm 10\%$ when one impulse of an 8x20us current waveform is applied.
Transient Peak Current	The maximum current with a varistor voltage change of less than $\pm 10\%$ when one impulse of an 8x20us current waveform is applied.
Varistor Voltage	Voltage across the varistor measured at 1mADC
Maximum Clamping Voltage	Peak voltage across the varistor with a specific peak impulse current applied (8x20us).
Capacitance	Typical value measured at 1Vrms and a test frequency of 1KHz.