Date 12/21/2020



## STANDARD SERIES

#### MAIDA STYLE NUMBER D73ZOV200RA01

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:

### D 65 21 ZOV 131 RA 20 T1N **Coating Designation** D - Standard Epoxy Coating P - Phenolic Coating None - Denote no conformal coating. **Nominal Sizes** 58 - 5mm 69 - 14mm 73 - 7mm 64 - 16mm 63 - 18mm 68 - 8mm 61 - 10mm 65 - 20mm 71 - 11mm 66 - 25mm 62 - 12mm **Lead Configuration Material Identifier** Zinc Oxide Varistor (ZOV **AC Voltage Rating** Two significant figures plus number of zeroes that follow, i.e. 131 is 130VAC **Special Instructions** RA is standard (RB, RD, RX optional) Rating Code Up to four numbers

# T - Tape and Reel or Tape and Ammo Followed by two digit alphanumeric

**Optional Taping Code** 

#### MAIDA ITEM NUMBER 01-0598

#### **Electrical Specifications**

Continuous AC Voltage	20	VAC
Continuous DC Voltage	26	VDC
Maximum DC Leakage @ 26 VDC	200	uA
Low Varistor Voltage Limit	30	VDC
High Varistor Voltage Limit	36	VDC
Nominal Varistor Voltage	33	VDC
Current for Varistor Voltage	1	mA
Maximum Clamp Voltage	65	V
Maximum Clamp Voltage Test Current	2.5	Α
Peak Current Rating (1 Pulse)	500	Α
Peak Current Rating (2 Pulse)	250	Α
Energy Rating (8X20us)	2	J
Typical Capacitance	4160	pF
Impulse Response Time	< 50	ns
Minimum Hipot of Coating	2500	VDC
Minimum I.R. of Coating	1000	$M\Omega$
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

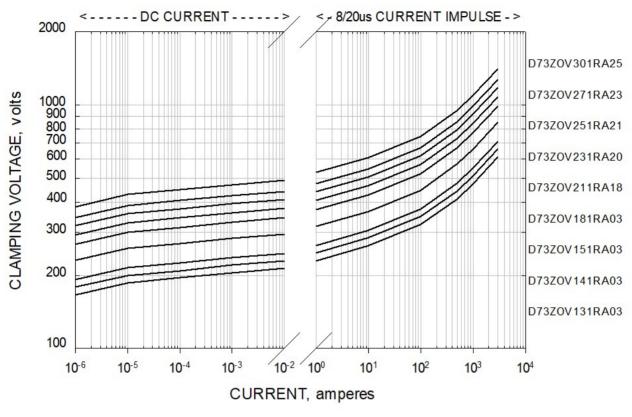
P.O. Box 3529

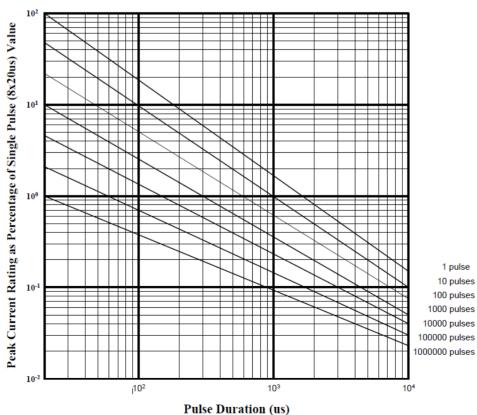
Hampton, Virginia 23663 Ph: (757) 723-0785 Fax (757) 722-1194

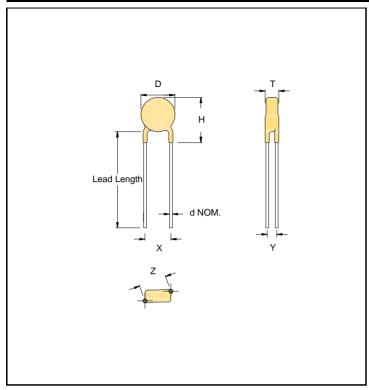
www.maida.com

#### Characteristic Graphs

## D73 (7mm) SERIES







\* Contact Maida for a more detailed configuration drawing.

### 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

**Physical Specifications** 

005N	
0.2	in.
0.04	in.
0.054	in.
0.03	in.
0.207	in.
0.04	in.
1.00	in.
min.	in.
0.025	in.
22	AWG
Z200-01UL	
7	mm
0.354	in.
0.176	in.
0.479	in.
EPOXY	
	0.2 0.04 0.054 0.03 0.207 0.04 1.00 min. 0.025 22 Z200-01UI 7 0.354 0.176 0.479

### **Environmental Compliances**

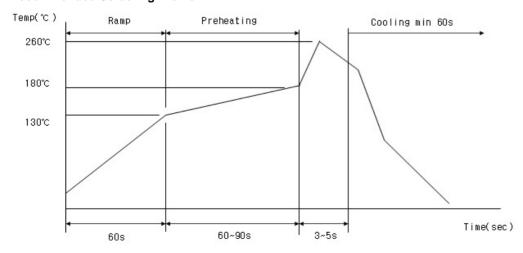








### **Recommended Soldering Profile**



## **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	Vv at 85°C - Vv at 25°C         X         1         X         100           Vv at 25°C         60°C   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 ± 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 ± 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.