Date 12/21/2020



STANDARD SERIES

MAIDA STYLE NUMBER D73ZOV350RA02

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 68 - 8mm 63 - 18mm 61 - 10mm 65 - 20mm 66 - 25mm 71 - 11mm 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

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

Up to four numbers

Optional Taping Code

MAIDA ITEM NUMBER 01-0927

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	2.5	Α
Peak Current Rating (1 Pulse)	500	Α
Peak Current Rating (2 Pulse)	250	Α
Energy Rating (8X20us)	3.4	J
Typical Capacitance	2450	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

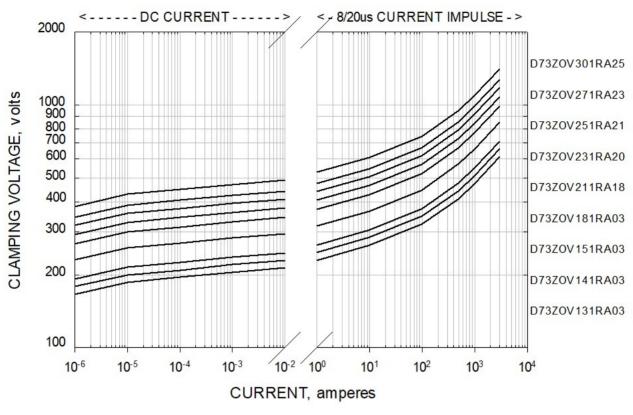
MAIDA DEVELOPMENT COMPANY

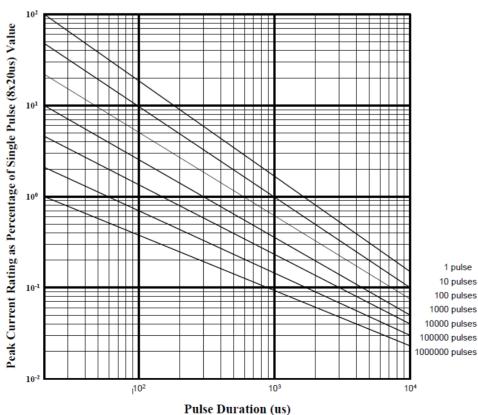
P.O. Box 3529 Hampton, Virginia 23663 Ph: (757) 723-0785 Fax (757) 722-1194

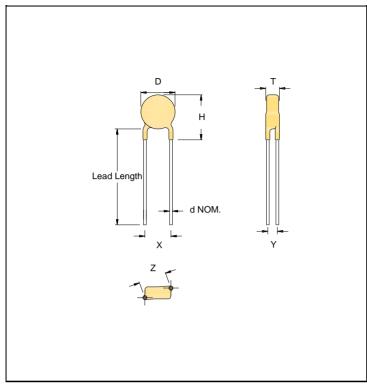
www.maida.com

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

Lead Style	005N	
X Nominal	0.2	in.
X Tolerance	0.04	in.
Y Nominal	0.074	in.
Y Tolerance	0.03	in.
Z Nominal	0.213	in.
Z Tolerance	0.04	in.
Lead Length Nominal	1.00	in.
Lead Length Tolerance	min.	in.
d Nominal	0.025	in.
Wire Gauge	22	AWG
Minimum Marking	Z350-02UL	
Nominal Disk Size	7	mm
D Maximum	0.354	in.
T Maximum	0.199	in.
H Maximum	0.479	in.
Coating Type	EPOXY	

Environmental Compliances

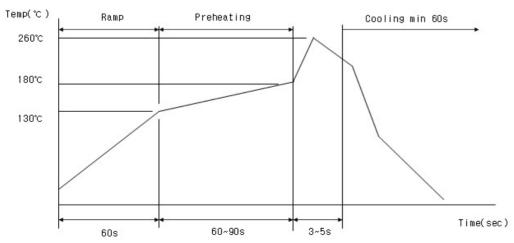








Recommended Soldering Profile



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.