



MAIDA STYLE NUMBER D58ZOV350RA01

MAIDA ITEM NUMBER 01-0280

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
 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

Optional Taping Code

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

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	117 V
Maximum Clamp Voltage Test Current	1 A
Peak Current Rating (1 Pulse)	250 A
Peak Current Rating (2 Pulse)	125 A
Energy Rating (8X20us)	1.8 J
Typical Capacitance	1140 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: 5-0.05kA

C-UL File Number

VDE File Number

CSA File Number

SEV File Number

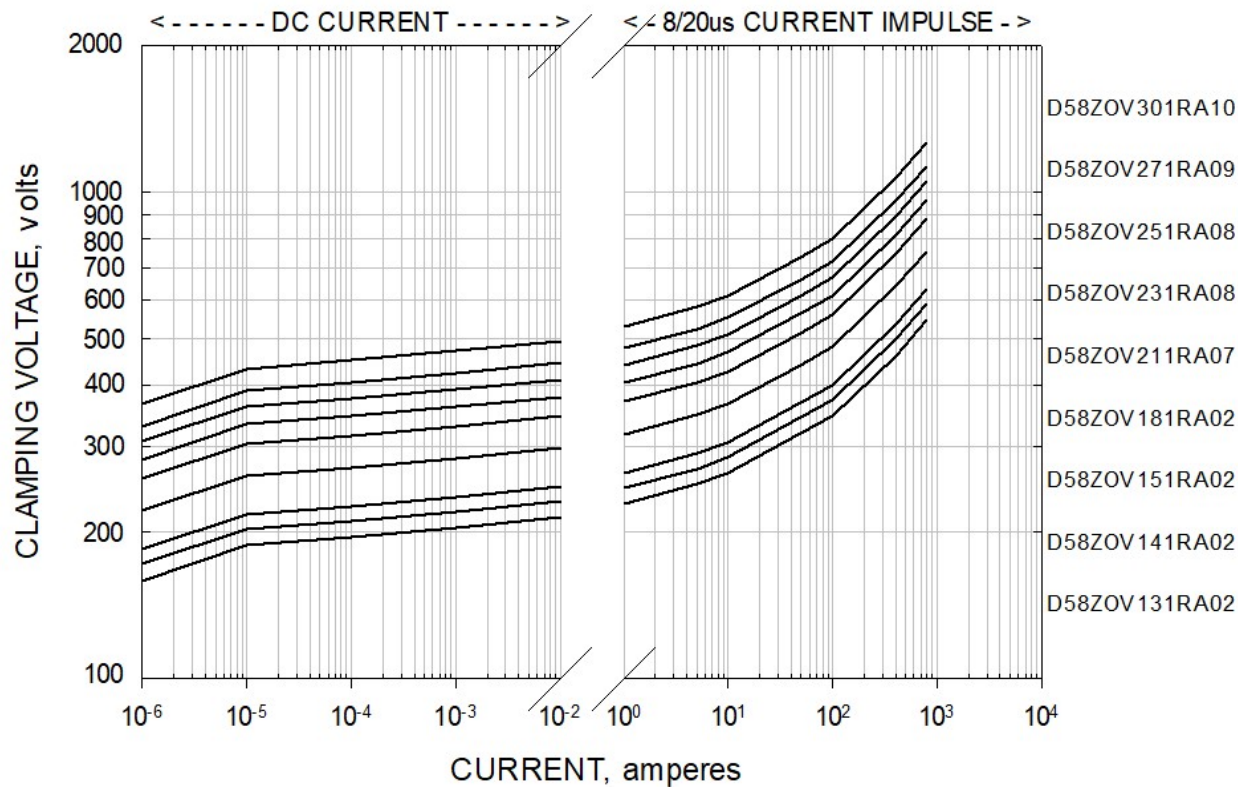
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Characteristic Graphs

D58 (5mm) SERIES



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	$\frac{V_v \text{ at } 85^\circ\text{C} - V_v \text{ at } 25^\circ\text{C}}{V_v \text{ at } 25^\circ\text{C}} \times \frac{1}{60^\circ\text{C}} \times 100$ <p>Where Vv is varistor voltage at 1mADC</p>
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.