

INTRODUCTION

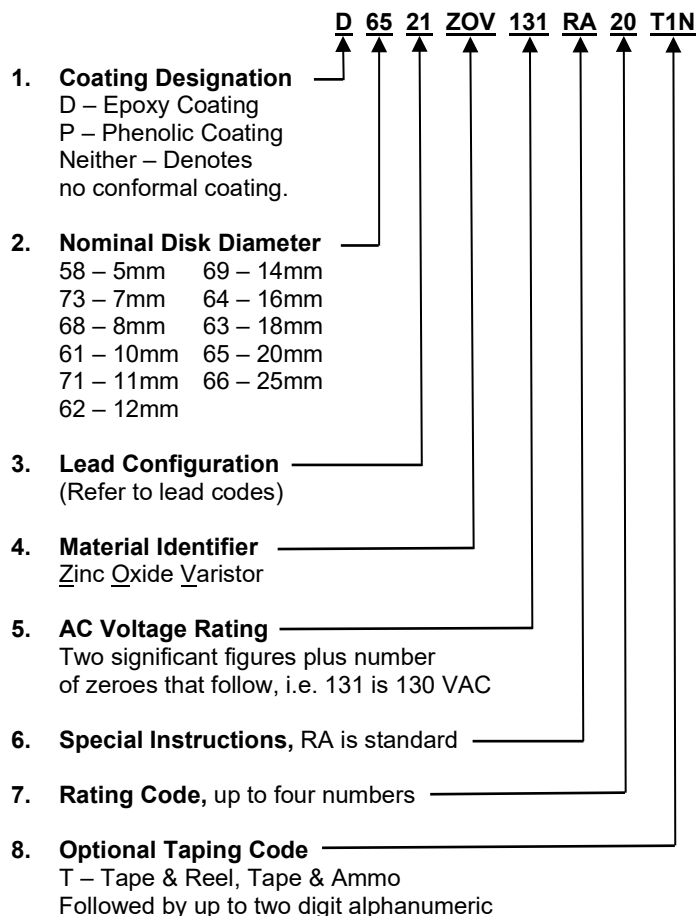
The Standard Series is our broadest and most comprehensive line of radial-leaded varistors. These components consist of wire leads and have nominal disk diameters from 5mm to 25mm. They are available with maximum continuous operating voltages (MCOV) ranging from 11VAC to 1000VAC (up to 1500VAC upon request).

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.

STYLE DESIGNATION

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 Item Number is a unique designation for each MOV design, whereas numerous MOV designs may be made with the same Maida Style Number.

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



STANDARD MARKING

Minimum marking shall consist of an abbreviated style designation and, when space is available, the manufacturer's initials or company logo.

For example:

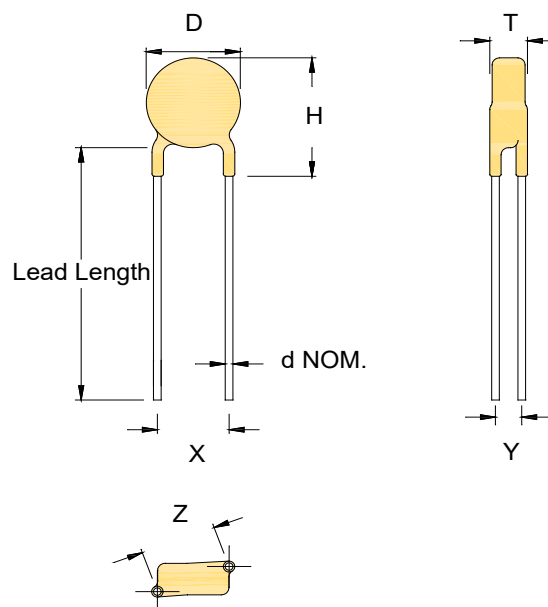
MDC
Z131
20UL

Where:

MDC - Company Initials
Z - Zinc Oxide Varistor
131 - AC Voltage rating (130VAC)
20 - Rating code
UL - UL recognition, if applicable

A manufacturing date code and/or special markings are available upon request.

Other safety agency designations are included where applicable.

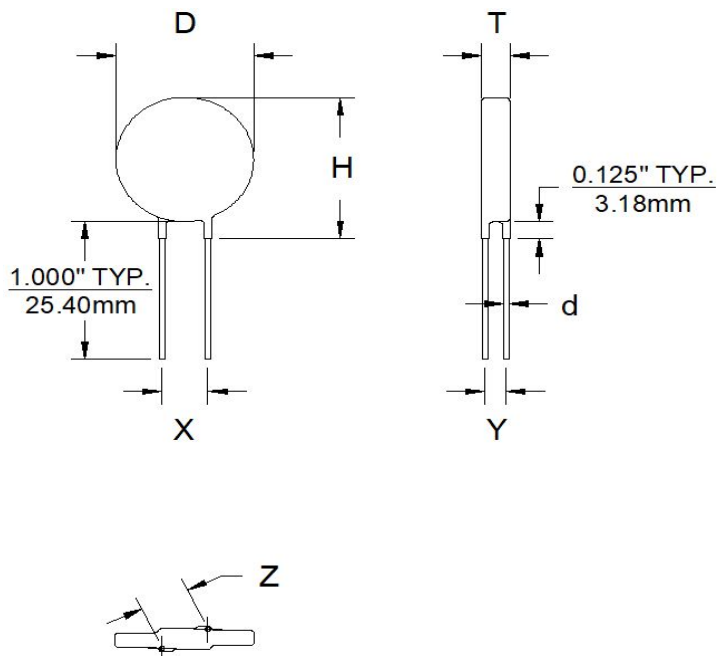


Maida Style Number	Recognitions To Safety Agency Standards						Nominal Size (mm)	Minimum Marking	Maximum Ratings						Electrical Characteristics				
									Applied Voltage		Transient				Varistor Voltage @ 1 mA DC		Max Clamping Voltage (@ Test Current)		Typical Cap. 1 V rms @ 1kHz
											Energy		Peak Current						
											10 x 1000 μ sec	8 x 20 μ sec	# Pulses						
									(AC)	(DC)	(J)	(J)	(A)	(A)	Vmin (V)	Vmax (V)	(V)	(A)	(pF)
D61ZOV481RA50	X	X	X				10	Z481 - 50UL	480	640	120	120	3500	2500	679	829	1300	25	119
D62ZOV481RA80	X	X					12	Z481 - 80UL	480	640	167	167	4500	3200	679	829	1300	40	227
D69ZOV481RA105	X	X	X				14	Z481 - 105UL	480	640	235	235	6000	4500	679	829	1300	50	242
D63ZOV481RA130	X	X					18	Z481 - 130UL	480	640	365	365	7500	6000	679	829	1300	75	427
D65ZOV481RA180	X	X	X				20	Z481 - 180UL	480	640	460	460	10000	6500	679	829	1300	100	544
D6694ZOV481RA360	X	X	X				25	Z481 - 360UL	480	640	510	510	13000	9000	679	829	1300	100	989
D61ZOV511RA55	X	X	X				10	Z511 - 55UL	510	675	125	125	3500	2500	722	881	1350	25	112
D62ZOV511RA85	X	X					12	Z511 - 85UL	510	675	172	172	4500	3200	722	881	1350	40	213
D69ZOV511RA110	X	X	X				14	Z511 - 110UL	510	675	240	240	6000	4500	722	881	1350	50	227
D63ZOV511RA140	X	X					18	Z511 - 140UL	510	675	375	375	7500	6000	722	881	1350	75	401
D65ZOV511RA190	X	X	X				20	Z511 - 190UL	510	675	470	470	10000	6500	722	881	1350	100	510
D6694ZOV511RA380	X	X	X				25	Z511 - 380UL	510	675	525	525	13000	9000	722	881	1350	100	927
D61ZOV551RA60	X	X	X				10	Z551 - 60UL	550	700	130	130	3500	2500	778	950	1400	25	104
D62ZOV551RA90	X	X					12	Z551 - 90UL	550	700	192	192	4500	3200	778	950	1400	40	198
D69ZOV551RA115	X	X	X				14	Z551 - 115UL	550	700	255	255	6000	4500	778	950	1400	50	211
D63ZOV551RA145	X	X					18	Z551 - 145UL	550	700	405	405	7500	6000	778	950	1400	75	373
D65ZOV551RA200	X	X	X				20	Z551 - 200UL	550	700	510	510	10000	6500	778	950	1400	100	475
D6694ZOV551RA400	X	X	X				25	Z551 - 400UL	550	700	540	540	13000	9000	778	950	1400	100	862
D61ZOV581RA65	X	X					10	Z581 - 65UL	580	735	140	140	3500	2500	821	1002	1500	25	98
D62ZOV581RA95	X	X					12	Z581 - 95UL	580	735	202	202	4500	3200	821	1002	1500	40	187
D69ZOV581RA120	X	X	X				14	Z581 - 120UL	580	735	265	265	6000	4500	821	1002	1500	50	199
D63ZOV581RA160	X	X					18	Z581 - 160UL	580	735	425	425	7500	6000	821	1002	1500	75	352
D65ZOV581RA220	X	X	X				20	Z581 - 220UL	580	735	530	530	10000	6500	821	1002	1500	100	449
D6694ZOV581RA440	X	X	X				25	Z581 - 440UL	580	735	560	560	13000	9000	821	1002	1500	100	815
D61ZOV621RA65	X	X	X				10	Z621 - 65UL	620	800	145	145	3500	2500	877	1071	1650	25	92
D62ZOV621RA100	X	X					12	Z621 - 100UL	620	800	215	215	4500	3200	877	1071	1650	40	175
D69ZOV621RA130	X	X	X				14	Z621 - 130UL	620	800	290	290	6000	4500	877	1071	1650	50	186
D63ZOV621RA170	X	X					18	Z621 - 170UL	620	800	450	450	7500	6000	877	1071	1650	75	329
D65ZOV621RA230	X	X	X				20	Z621 - 230UL	620	800	565	565	10000	6500	877	1071	1650	100	419
D6694ZOV621RA460	X	X	X				25	Z621 - 460UL	620	800	600	600	13000	9000	877	1071	1650	100	761
D61ZOV681RA70	X	X	X				10	Z681 - 70UL	680	860	155	155	3500	2500	962	1175	1800	25	84
D62ZOV681RA105	X	X					12	Z681 - 105UL	680	860	232	232	4500	3200	962	1175	1800	40	160
D69ZOV681RA150	X	X	X				14	Z681 - 150UL	680	860	310	310	6000	4500	962	1175	1800	50	170
D63ZOV681RA200	X	X					18	Z681 - 200UL	680	860	500	500	7500	6000	962	1175	1800	75	300
D65ZOV681RA260	X	X	X				20	Z681 - 260UL	680	860	620	620	10000	6500	962	1175	1800	100	382
D6694ZOV681RA520	X	X	X				25	Z681 - 520UL	680	860	655	655	13000	9000	962	1175	1800	100	694
D69ZOV751RA165	X	X	X				14	Z751 - 165UL	750	900	350	350	6000	4500	1062	1300	2100	50	151
D63ZOV751RA220	X	X					18	Z751 - 220UL	750	900	540	540	7500	6000	1062	1300	2100	75	267
D65ZOV751RA290	X	X	X				20	Z751 - 290UL	750	900	670	670	10000	6500	1062	1300	2100	100	340
D6694ZOV751RA560	X	X	X				25	Z751 - 560UL	750	900	700	700	13000	9000	1062	1300	2100	100	618
D69ZOV102RA220	X	X					14	Z102 - 220UL	1000	1200	510	510	6000	4500	1414	1728	2700	50	115
D63ZOV102RA280	X	X					18	Z102 - 280UL	1000	1200	690	690	7500	6000	1414	1728	2700	75	204
D65ZOV102RA360	X	X					20	Z102 - 360UL	1000	1200	860	860	10000	6500	1414	1728	2700	100	259
D6694ZOV102RA720	X	X					25	Z102 - 720UL	1000	1200	875	875	13000	9000	1414	1728	2700	100	471

A = UL1449 D = VDE
 B = cUL E = DEMKO
 C = CSA F =

STANDARD SERIES

MECHANICAL SPECIFICATIONS



Dimension	5mm	7mm	8mm	10mm	11mm	12mm	14mm	16mm	18mm	20mm	25mm
MAX. D	0.298"	0.354"	0.394"	0.472"	0.531"	0.590"	0.650"	0.710"	0.812"	0.905"	1.100"
MAX. T	0.161" - 0.313"	0.161" - 0.313"	0.204" - 0.268"	0.161" - 0.405"	0.161" - 0.212"	0.161" - 0.385"	0.161" - 0.531"	0.161" - 0.212"	0.161" - 0.531"	0.161" - 0.531"	0.161" - 0.531"
MAX. H	0.423"	0.479"	0.519"	0.597"	0.656"	0.715"	0.775"	0.835"	0.912"	1.030"	1.250"
TYP. X	0.200"	0.200"	0.200"	0.300"	0.300"	0.300"	0.300"	0.300"	0.300"	0.300"	0.500"
TYP. d	0.025"	0.025"	0.025"	0.032"	0.032"	0.032"	0.032"	0.032"	0.032"	0.032"	0.040"

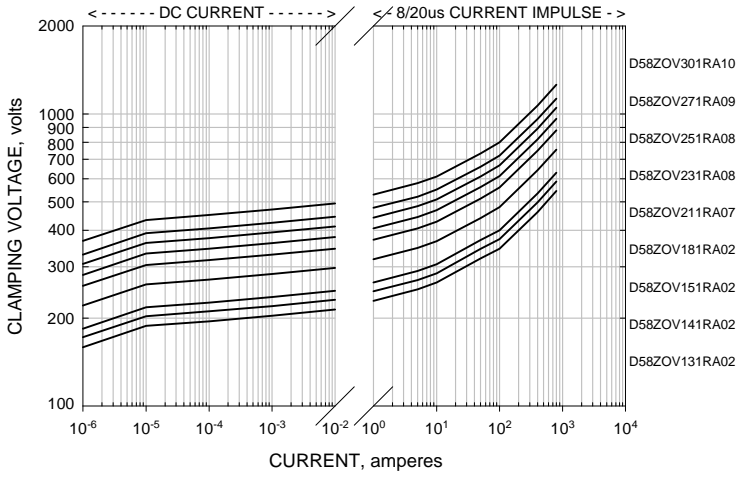
NOTES:

1. Alternate dimensional specifications, including lead styles, for any part listed may be available upon request.
2. Specifications are subject to change. Contact Maida for specific datasheet for exact dimensions.

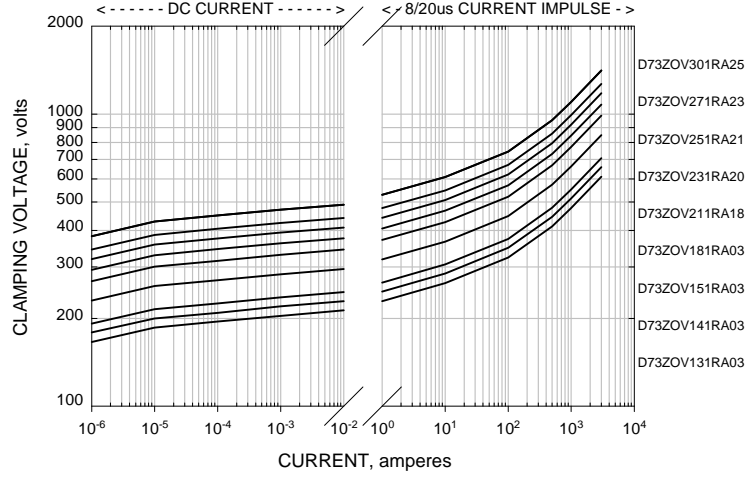
STANDARD SERIES - TYPICAL VOLTAGE-CURRENT CURVES



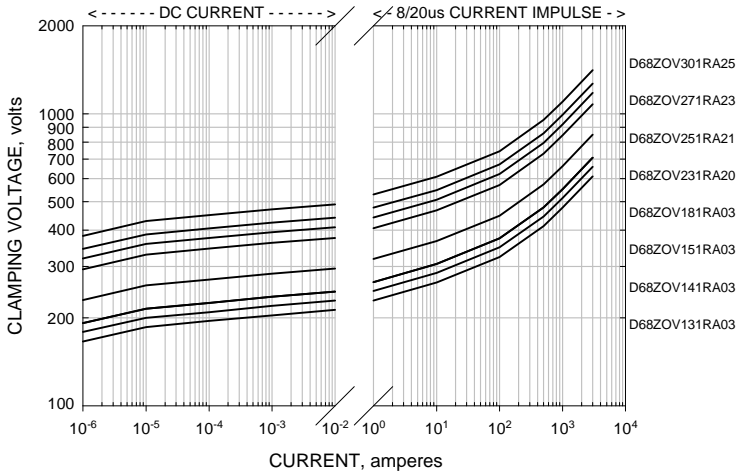
D58 (5mm) SERIES



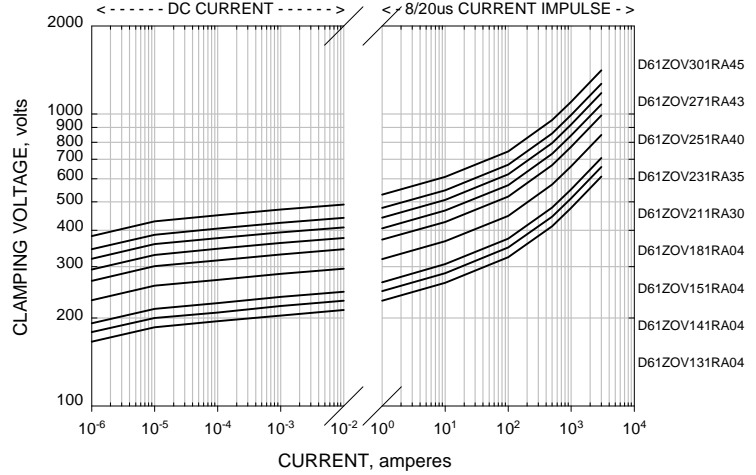
D73 (7mm) SERIES



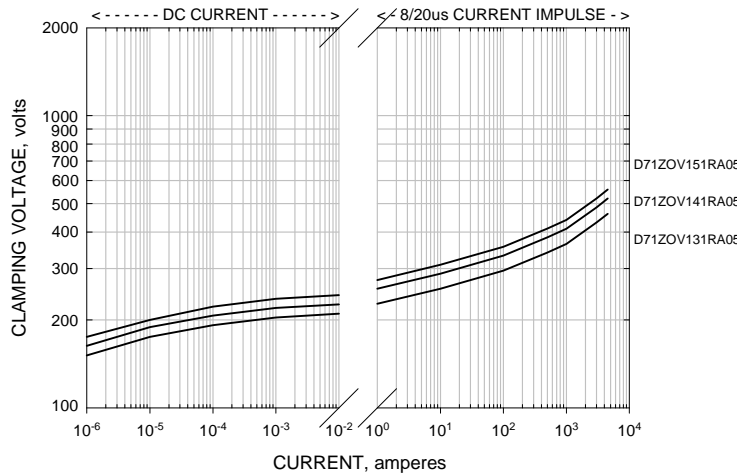
D68 (8mm) SERIES



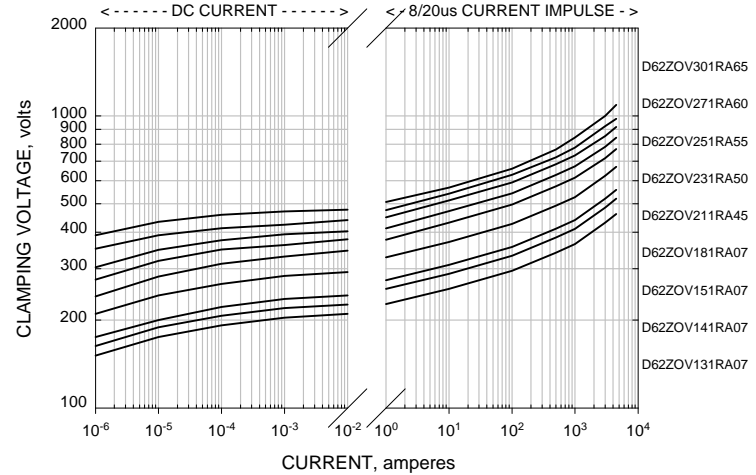
D61 (10mm) SERIES



D71 (11mm) SERIES



D62 (12mm) SERIES

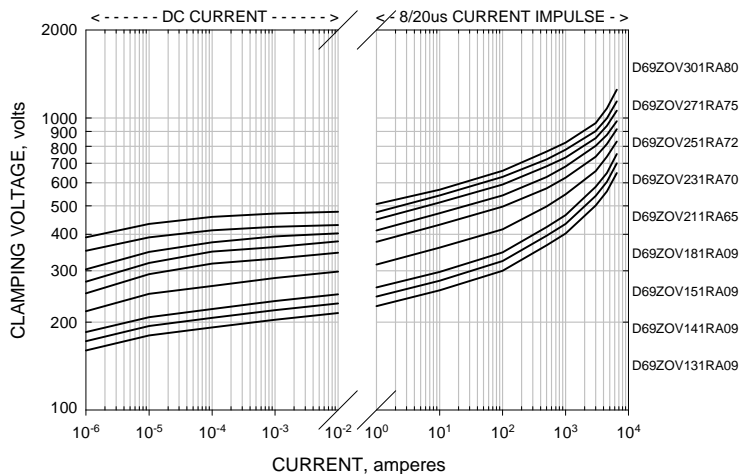


NOTE: For a more detailed V-I curve or for a voltage not listed on the graphs provided, please contact us.

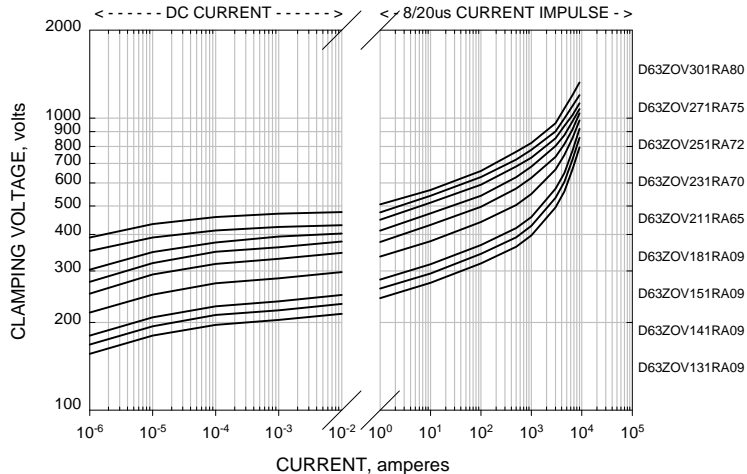
STANDARD SERIES - TYPICAL VOLTAGE-CURRENT CURVES



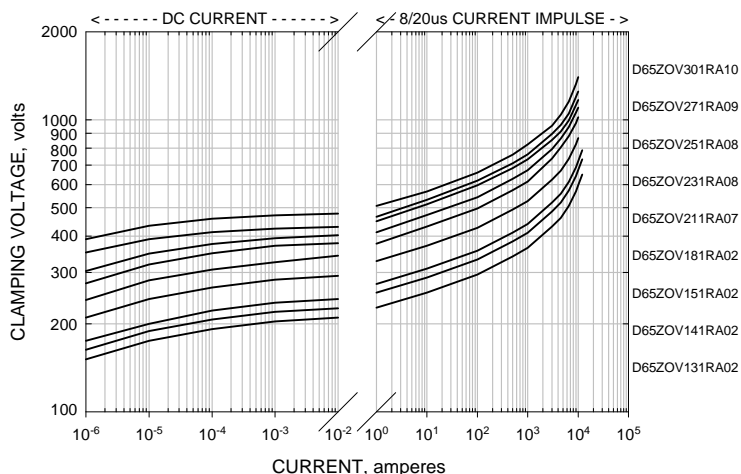
D69 (14mm) SERIES



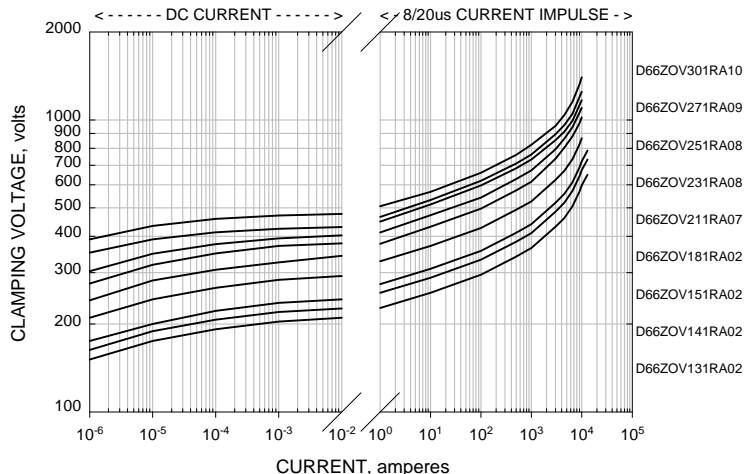
D63 (18mm) SERIES



D65 (20mm) SERIES



D66 (25mm) SERIES



NOTE: For a more detailed V-I curve or for a voltage not listed on the graphs provided, please contact us.



LEAD CODES

The Maida Development Company prides itself on its ability to manufacture wire leaded devices to meet almost every request of its customers. The following table depicts common varieties of leads that are presently supplied. It should be noted that the dimensions (such as the X, Y, Z, height, lead length, epoxy "pant leg", wire diameter, etc.) can be modified on any the items shown to meet almost any request. Maida is also capable of supplying the various lead forms in either right-hand or left-hand configurations.

For any inquiries regarding specific lead forms please contact us.

NOTE: The images shown depict a round varistor only. However, any lead configuration can be obtained on either round or square varistors.

TAPE & REEL

The Maida Development Company MOV's are available in Bulk, Tape & Reel, or Ammo Pack packaging formats. All Tape & Reel and Ammo Pack part numbers are designated by suffixing the Maida style number with a T followed by a 1-2 digit alphanumeric code. The codes are generally given to indicate whether the packaging is either Ammo Pack or Tape & Reel, the typical lead spacing of the varistor, the lead style, the wire gauge (or wire diameter), and the taping pitch.

Generally, through-hole varistors with a lead spacing of 0.394", or less, and a nominal disc diameter of 20mm, or less, can be taped. Larger diameters and/or lead spacing's may be offered taped; however customers should contact us for confirmation.

All SMD Series, SMV Series, Encapsulated MOV Series, and MLV Series are provided Tape & Reel. For bulk packaging please contact us.

Maida's taping specifications comply with the requirements of the EIA taping standard. Configurations are available to meet almost any request.

Detailed drawings for all taping codes are available upon request.

COMMON LEAD CODES

