

INTRODUCTION

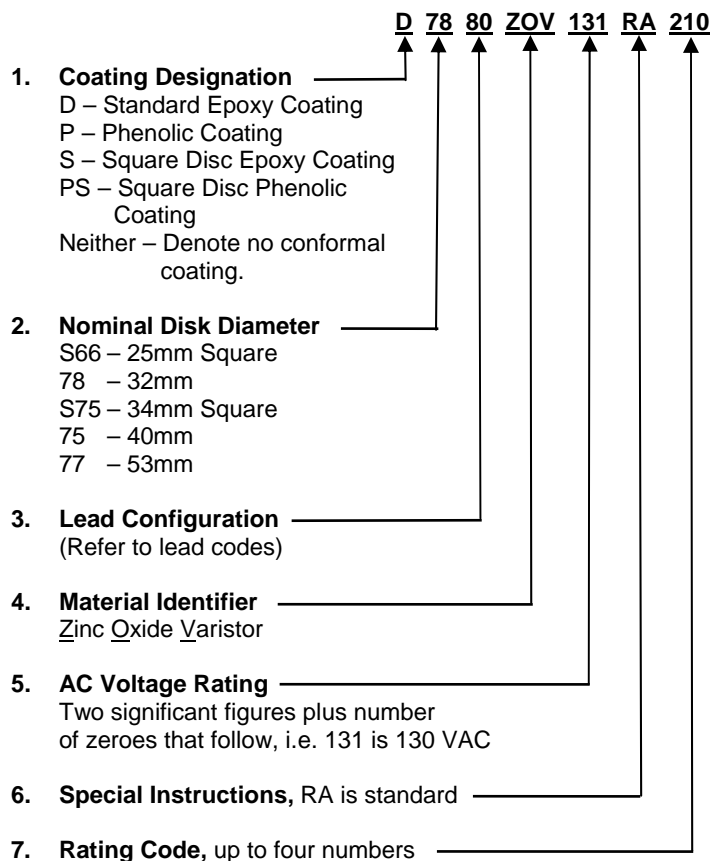
The High Energy Series is our large tab-leaded and wire-leaded varistors. They are available in round and square shapes. These varistors are available in 25mm, 32mm, 34mm, 40mm, and 53mm configurations including single and dual discs. They are available with maximum continuous operating voltages (MCOV) ranging from 130VAC to 1000VAC (up to 1500VAC upon request).

The High Energy Series is designed for pulse repetition and/or very large surge current environments. Numerous tab forms are available for all sizes.

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 following example is the standard part numbering system when ordering our High Energy 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.

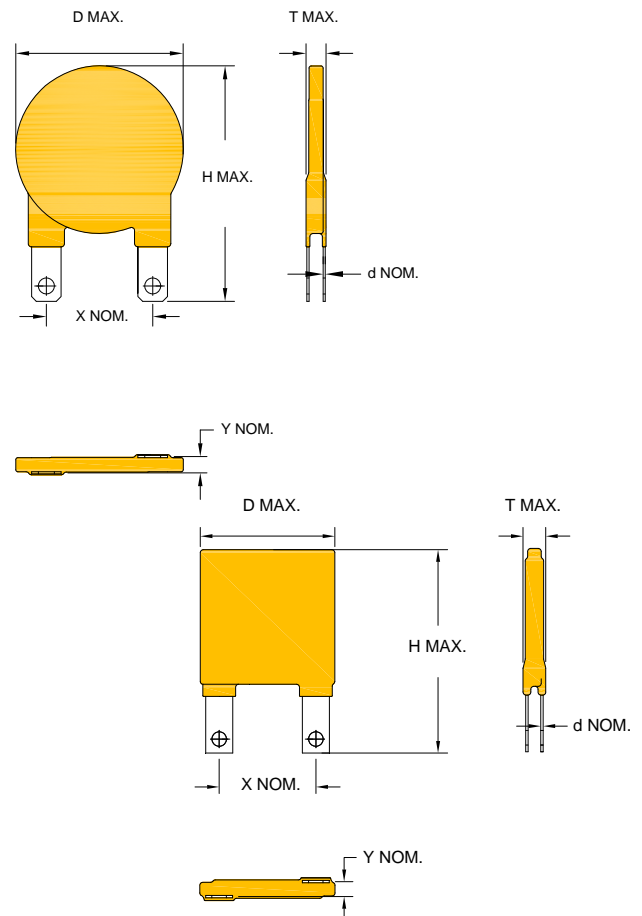
Example
MDC
Z131
210UL

Where:

MDC - Company Initials
Z - Zinc Oxide Varistor
131 - AC Voltage rating (130VAC)
210 - 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.



HIGH ENERGY SERIES

SPECIFICATIONS

130VAC thru 320VAC VARISTORS

Maida Style Number	Recognitions To Safety Agency Standards						Nominal Size (mm)	Minimum Marking	Maximum Ratings						Electrical Characteristics				
									Applied Voltage		Energy		Peak Current 8 x 20 μ sec # Pulses		Varistor Voltage @ 1 mA DC		Max Clamping Voltage (@ Test Current)		Typical Cap. 1 V rms @ 1kHz
											10 x 1000 μ sec	8 x 20 μ sec	1	2	Vmin	Vmax	(8 x 20 μ sec)		
									(AC)	(DC)	(J)	(J)	(A)	(A)	(V)	(V)	(V)	(A)	(pF)
S6680ZOV131RA180	X	X				25	C5S-131UL	130	175	180	180	20000	14000	184	224	340	100	5000	
D7880ZOV131RA210	X	X				32	Z131-210UL	130	175	210	210	25000	20000	184	224	340	200	5400	
S7580ZOV131RA310	X	X				34	D4S-131UL	130	175	310	310	40000	32000	184	224	340	300	8100	
D7580ZOV131RA310	X	X				40	Z131-310UL	130	175	310	310	40000	32000	184	224	340	300	7600	
D7780ZOV131RA490	X	X				53	Z131-490UL	130	175	490	490	70000	56000	184	224	340	500	15000	
S6680ZOV141RA190	X	X				25	C5S-141UL	140	180	190	190	20000	14000	198	242	360	100	4700	
D7880ZOV141RA225	X	X				32	Z141-225UL	140	180	225	225	25000	20000	198	242	360	200	5000	
S7580ZOV141RA330	X	X				34	D4S-141UL	140	180	330	330	40000	32000	198	242	360	300	7500	
D7580ZOV141RA330	X	X				40	Z141-330UL	140	180	330	330	40000	32000	198	242	360	300	7100	
D7780ZOV141RA530	X	X				53	Z141-530UL	140	180	530	530	70000	56000	198	242	360	500	14000	
S6680ZOV151RA200	X	X				25	C5S-151UL	150	200	200	200	20000	14000	212	259	395	100	4300	
D7880ZOV151RA240	X	X				32	Z151-240UL	150	200	240	240	25000	20000	212	259	395	200	4600	
S7580ZOV151RA360	X	X				34	D4S-151UL	150	200	360	360	40000	32000	212	259	395	300	6900	
D7580ZOV151RA360	X	X				40	Z151-360UL	150	200	360	360	40000	32000	212	259	395	300	6500	
D7780ZOV151RA570	X	X				53	Z151-570UL	150	200	570	570	70000	56000	212	259	395	500	13000	
S6680ZOV181RA250	X	X				25	C5S-181UL	180	230	250	250	20000	14000	255	311	465	100	3200	
D7880ZOV181RA250	X	X				32	Z181-250UL	180	230	250	250	25000	20000	255	311	465	200	2900	
S7580ZOV181RA390	X	X				34	D4S-181UL	180	230	390	390	40000	32000	255	311	465	300	5600	
D7580ZOV181RA390	X	X				40	Z181-390UL	180	230	390	390	40000	32000	255	311	465	300	4000	
D7780ZOV181RA630	X	X				53	Z181-630UL	180	230	630	630	70000	56000	255	311	465	500	6300	
S6680ZOV211RA270	X	X				25	C5S-211UL	210	270	270	270	20000	14000	297	363	640	100	2700	
D7880ZOV211RA360	X					32	Z211-360UL	210	270	360	360	25000	20000	297	363	640	200	2500	
S7580ZOV211RA430	X	X				34	D4S-211UL	210	270	430	430	40000	32000	297	363	640	300	4800	
D7580ZOV211RA430	X					40	Z211-430UL	210	270	430	430	40000	32000	297	363	640	300	3400	
D7780ZOV211RA700	X					53	Z211-700UL	210	270	700	700	70000	56000	297	363	640	500	5400	
S6680ZOV231RA290	X	X				25	C5S-231UL	230	300	290	290	20000	14000	326	397	595	100	2500	
D7880ZOV231RA300	X	X				32	Z231-300UL	230	300	300	300	25000	20000	326	397	595	200	2300	
S7580ZOV231RA460	X	X				34	D4S-231UL	230	300	460	460	40000	32000	326	397	595	300	4400	
D7580ZOV231RA460	X	X				40	Z231-460UL	230	300	460	460	40000	32000	326	397	595	300	3100	
D7780ZOV231RA730	X	X				53	Z231-730UL	230	300	730	730	70000	56000	326	397	595	500	4900	
S6680ZOV251RA310	X	X				25	C5S-251UL	250	330	330	330	20000	14000	354	432	650	100	2300	
D7880ZOV251RA330	X	X				32	Z251-330UL	250	330	360	330	25000	20000	354	432	650	200	2500	
S7580ZOV251RA490	X	X				34	D4S-251UL	250	330	490	490	40000	32000	354	432	650	300	4100	
D7580ZOV251RA490	X	X				40	Z251-490UL	250	330	490	490	40000	32000	354	432	650	300	2900	
D7780ZOV251RA800	X	X				53	Z251-800UL	250	330	880	880	70000	56000	354	432	650	500	4600	
S6680ZOV271RA330	X	X				25	C5S-271UL	270	360	340	340	20000	14000	382	466	710	100	2100	
D7880ZOV271RA360	X	X				32	Z271-360UL	270	360	360	360	25000	20000	382	466	710	200	2000	
S7580ZOV271RA550	X	X				34	D4S-271UL	270	360	550	550	40000	32000	382	466	710	300	3800	
D7580ZOV271RA550	X	X				40	Z271-550UL	270	360	550	550	40000	32000	382	466	710	300	2700	
D7780ZOV271RA860	X	X				53	Z271-860UL	270	360	950	950	70000	56000	382	466	710	500	4200	
S6680ZOV301RA350	X	X				25	C5S-301UL	300	390	350	350	20000	14000	425	518	790	100	1900	
D7880ZOV301RA380	X	X				32	Z301-380UL	300	390	380	380	25000	20000	425	518	790	200	1700	
S7580ZOV301RA600	X	X				34	D4S-301UL	300	390	600	600	40000	32000	425	518	790	300	3400	
D7580ZOV301RA600	X	X				40	Z301-600UL	300	390	600	600	40000	32000	425	518	790	300	2400	
D7780ZOV301RA940	X	X				53	Z301-940UL	300	390	1000	1000	70000	56000	425	518	790	500	3800	
S6680ZOV321RA360	X	X				25	C5S-321UL	320	420	360	360	20000	14000	453	553	850	100	1800	
D7880ZOV321RA430	X	X				32	Z321-430UL	320	420	430	430	25000	20000	453	553	850	200	1600	
S7580ZOV321RA640	X	X				34	D4S-321UL	320	420	640	640	40000	32000	453	553	850	300	3200	
D7580ZOV321RA640	X	X				40	Z321-640UL	320	420	640	640	40000	32000	453	553	850	300	2200	
D7780ZOV321RA1000	X	X				53	Z321-1000UL	320	420	1100	1100	70000	52000	453	553	850	500	3600	

NOTES:

Appendix A lists the single-pulse peak current and energy ratings on file with the Safety Agencies.

Maximum transient rating specified in this table are valid. They may differ from those shown in Appendix A.

A = UL1449 File E321173 - Surge Protective Devices

D = VDE File 40017480

B = cUL File E321173 - Surge Protective Devices

E = SEV - 96.7 70250.01

C = CSA C22.2 File 033468

130VAC thru 320VAC VARISTORS

Maida Style Number	MAX. Diameter (D) (in)	MAX. Thickness (T) (in)	MAX. Height (H) (in)	Typical X Dimension (in)	Typical X Tolerance (in)	Typical Y Dimension (in)	Typical Y Tolerance (in)	Typical Z Dimension (in)	Typical Z Tolerance (in)	Typical Wire Diameter (d) (in)
S6680ZOV131RA180	1.142	0.248	1.970	1.000	0.020	0.122	0.040	N/A	N/A	0.020
D7880ZOV131RA210	1.575	0.248	2.213	1.000	0.020	0.122	0.040	N/A	N/A	0.020
S7580ZOV131RA310	1.476	0.248	2.225	1.000	0.020	0.122	0.040	N/A	N/A	0.020
D7580ZOV131RA310	1.890	0.248	2.370	1.000	0.020	0.122	0.040	N/A	N/A	0.020
D7780ZOV131RA490	2.400	0.248	3.075	1.000	0.020	0.125	0.040	N/A	N/A	0.020
S6680ZOV141RA190	1.142	0.252	1.970	1.000	0.020	0.126	0.040	N/A	N/A	0.020
D7880ZOV141RA225	1.575	0.252	2.213	1.000	0.020	0.126	0.040	N/A	N/A	0.020
S7580ZOV141RA330	1.476	0.252	2.225	1.000	0.020	0.126	0.040	N/A	N/A	0.020
D7580ZOV141RA330	1.890	0.252	2.370	1.000	0.020	0.126	0.040	N/A	N/A	0.020
D7780ZOV141RA530	2.400	0.252	3.075	1.000	0.020	0.129	0.040	N/A	N/A	0.020
S6680ZOV151RA200	1.142	0.257	1.970	1.000	0.020	0.131	0.040	N/A	N/A	0.020
D7880ZOV151RA240	1.575	0.257	2.213	1.000	0.020	0.131	0.040	N/A	N/A	0.020
S7580ZOV151RA360	1.476	0.257	2.225	1.000	0.020	0.132	0.040	N/A	N/A	0.020
D7580ZOV151RA360	1.890	0.257	2.370	1.000	0.020	0.132	0.040	N/A	N/A	0.020
D7780ZOV151RA570	2.400	0.257	3.075	1.000	0.020	0.135	0.040	N/A	N/A	0.020
S6680ZOV181RA250	1.142	0.267	1.970	1.000	0.020	0.120	0.040	N/A	N/A	0.020
D7880ZOV181RA250	1.575	0.267	2.213	1.000	0.020	0.120	0.040	N/A	N/A	0.020
S7580ZOV181RA390	1.476	0.267	2.225	1.000	0.020	0.120	0.040	N/A	N/A	0.020
D7580ZOV181RA390	1.890	0.267	2.370	1.000	0.020	0.120	0.040	N/A	N/A	0.020
D7780ZOV181RA630	2.400	0.267	3.075	1.000	0.020	0.122	0.040	N/A	N/A	0.020
S6680ZOV211RA270	1.142	0.275	1.970	1.000	0.020	0.128	0.040	N/A	N/A	0.020
D7880ZOV211RA360	1.575	0.275	2.213	1.000	0.020	0.128	0.040	N/A	N/A	0.020
S7580ZOV211RA430	1.476	0.275	2.225	1.000	0.020	0.129	0.040	N/A	N/A	0.020
D7580ZOV211RA430	1.890	0.275	2.370	1.000	0.020	0.129	0.040	N/A	N/A	0.020
D7780ZOV211RA700	2.400	0.275	3.075	1.000	0.020	0.132	0.040	N/A	N/A	0.020
S6680ZOV231RA290	1.142	0.280	1.970	1.000	0.020	0.134	0.040	N/A	N/A	0.020
D7880ZOV231RA300	1.575	0.280	2.213	1.000	0.020	0.134	0.040	N/A	N/A	0.020
S7580ZOV231RA460	1.476	0.280	2.225	1.000	0.020	0.135	0.040	N/A	N/A	0.020
D7580ZOV231RA460	1.890	0.280	2.370	1.000	0.020	0.135	0.040	N/A	N/A	0.020
D7780ZOV231RA730	2.400	0.280	3.075	1.000	0.020	0.137	0.040	N/A	N/A	0.020
S6680ZOV251RA310	1.142	0.287	1.970	1.000	0.020	0.139	0.040	N/A	N/A	0.020
D7880ZOV251RA330	1.575	0.287	2.213	1.000	0.020	0.139	0.040	N/A	N/A	0.020
S7580ZOV251RA490	1.476	0.287	2.225	1.000	0.020	0.140	0.040	N/A	N/A	0.020
D7580ZOV251RA490	1.890	0.287	2.370	1.000	0.020	0.140	0.040	N/A	N/A	0.020
D7780ZOV251RA800	2.400	0.287	3.075	1.000	0.020	0.143	0.040	N/A	N/A	0.020
S6680ZOV271RA330	1.142	0.294	1.970	1.000	0.020	0.144	0.040	N/A	N/A	0.020
D7880ZOV271RA360	1.575	0.294	2.213	1.000	0.020	0.144	0.040	N/A	N/A	0.020
S7580ZOV271RA550	1.476	0.294	2.225	1.000	0.020	0.146	0.040	N/A	N/A	0.020
D7580ZOV271RA550	1.890	0.294	2.370	1.000	0.020	0.146	0.040	N/A	N/A	0.020
D7780ZOV271RA860	2.400	0.294	3.075	1.000	0.020	0.149	0.040	N/A	N/A	0.020
S6680ZOV301RA350	1.142	0.305	1.970	1.000	0.020	0.153	0.040	N/A	N/A	0.020
D7880ZOV301RA380	1.575	0.305	2.213	1.000	0.020	0.153	0.040	N/A	N/A	0.020
S7580ZOV301RA600	1.476	0.305	2.225	1.000	0.020	0.155	0.040	N/A	N/A	0.020
D7580ZOV301RA600	1.890	0.305	2.370	1.000	0.020	0.155	0.040	N/A	N/A	0.020
D7780ZOV301RA940	2.400	0.305	3.075	1.000	0.020	0.158	0.040	N/A	N/A	0.020
S6680ZOV321RA360	1.142	0.310	1.970	1.000	0.020	0.158	0.040	N/A	N/A	0.020
D7880ZOV321RA430	1.575	0.312	2.213	1.000	0.020	0.159	0.040	N/A	N/A	0.020
S7580ZOV321RA640	1.476	0.312	2.225	1.000	0.020	0.160	0.040	N/A	N/A	0.020
D7580ZOV321RA640	1.890	0.312	2.370	1.000	0.020	0.161	0.040	N/A	N/A	0.020
D7780ZOV321RA1000	2.400	0.312	3.075	1.000	0.020	0.161	0.040	N/A	N/A	0.020

NOTE: Alternate dimensional specifications, including lead styles, for any part listed may be available upon request. Please contact us for any inquiries.

HIGH ENERGY SERIES

SPECIFICATIONS

340VAC thru 620VAC VARISTORS

Maida Style Number	Recognitions To Safety Agency Standards						Nominal Size (mm)	Minimum Marking	Maximum Ratings						Electrical Characteristics							
									Applied Voltage		Energy		Peak Current 8 x 20 μ sec # Pulses		Varistor Voltage @ 1 mA DC		Max Clamping Voltage (@ Test Current)		Typical Cap. 1 V rms @ 1kHz			
																				Continuous		Transient
									10 x 1000 μ sec		8 x 20 μ sec		1		2		Vmin		Vmax		(8 x 20 μ sec)	
									(AC)	(DC)	(J)	(J)	(A)	(A)	(V)	(V)	(V)	(A)	(pF)			
S6680ZOV341RA365	X						25	C5S-340UL	340	440	365	365	20000	14000	480	587	910	100	1700			
D7880ZOV341RA500	X						32	Z341-500UL	340	440	500	500	25000	20000	480	587	910	200	1550			
S7580ZOV341RA685	X						34	D4S-341UL	340	440	685	685	40000	32000	480	587	910	300	2200			
D7580ZOV341RA685	X						40	Z341-685UL	340	440	685	685	40000	32000	480	587	910	300	2100			
D7780ZOV341RA1140	X						53	Z341-1140UL	340	440	1140	1140	70000	56000	480	587	910	500	3400			
S6680ZOV361RA370	X	X					25	C5S-361UL	360	470	370	370	20000	14000	522	638	960	100	1500			
D7880ZOV361RA530	X						32	Z361-530UL	360	470	530	530	25000	20000	522	638	960	200	1400			
S7580ZOV361RA710	X	X					34	D4S-361UL	360	470	710	710	40000	32000	522	638	960	300	2800			
D7580ZOV361RA710	X						40	Z361-710UL	360	470	710	710	40000	32000	522	638	960	300	1900			
D7780ZOV361RA1180	X						53	Z361-1180UL	360	470	1180	1180	70000	56000	522	638	960	500	3200			
S6680ZOV391RA380	X	X					25	C5S-391UL	390	505	380	380	20000	14000	552	674	1025	100	1500			
D7880ZOV391RA550	X	X					32	Z391-550UL	390	505	550	550	25000	20000	552	674	1025	200	1300			
S7580ZOV391RA800	X	X					34	D4S-391UL	390	505	800	800	40000	32000	552	674	1025	300	2600			
D7580ZOV391RA800	X	X					40	Z391-800UL	390	505	800	800	40000	32000	552	674	1025	300	1800			
D7780ZOV391RA1200	X	X					53	Z391-1200UL	390	505	1200	1200	70000	52000	552	674	1025	500	3000			
S6680ZOV421RA390	X	X					25	C5S-421UL	420	560	390	390	20000	14000	594	725	1120	100	1400			
D7880ZOV421RA600	X	X					32	Z421-600UL	420	560	600	600	25000	20000	594	725	1120	200	1300			
S7580ZOV421RA910	X	X					34	D4S-421UL	420	560	910	910	40000	32000	594	725	1120	300	2400			
D7580ZOV421RA910	X	X					40	Z421-910UL	420	560	910	910	40000	32000	594	725	1120	300	1700			
D7780ZOV421RA1500	X	X					53	Z421-1500UL	420	560	1500	1500	70000	52000	594	725	1120	500	2800			
S6680ZOV461RA430	X	X					25	C5S-461UL	460	615	430	430	20000	14000	651	795	1240	100	1200			
D7880ZOV461RA520	X	X					32	Z461-520UL	460	615	520	520	25000	20000	651	795	1240	200	1100			
S7580ZOV461RA780	X	X					34	D4S-461UL	460	615	920	920	40000	32000	651	795	1240	300	2200			
D7580ZOV461RA780	X	X					40	Z461-780UL	460	615	780	780	40000	32000	651	795	1240	300	1500			
D7780ZOV461RA1200	X	X					53	Z461-1200UL	460	615	1600	1600	70000	52000	651	795	1240	500	2500			
S6680ZOV481RA440	X	X					25	C5S-481UL	480	640	440	440	20000	14000	679	829	1300	100	1200			
D7880ZOV481RA550	X	X					32	Z481-550UL	480	640	550	550	25000	20000	679	829	1300	200	1100			
S7580ZOV481RA820	X	X					34	D4S-481UL	480	640	930	930	40000	32000	679	829	1300	300	2100			
D7580ZOV481RA820	X	X					40	Z481-820UL	480	640	820	820	40000	32000	679	829	1300	300	1500			
D7780ZOV481RA1250	X	X					53	Z481-1250UL	480	640	1600	1600	70000	52000	679	829	1300	500	2400			
S6680ZOV511RA450	X	X					25	C5S-511UL	510	675	450	450	20000	14000	722	881	1350	100	1100			
D7880ZOV511RA580	X	X					32	Z511-580UL	510	675	580	580	25000	20000	722	881	1350	200	1000			
S7580ZOV511RA900	X	X					34	D4S-511UL	510	675	940	940	40000	32000	722	881	1350	300	2000			
D7580ZOV511RA900	X	X					40	Z511-900UL	510	675	900	900	40000	32000	722	881	1350	300	1400			
D7780ZOV511RA1400	X	X					53	Z511-1400UL	510	675	1800	1800	70000	52000	722	881	1350	500	2300			
S6680ZOV551RA480	X	X					25	C5S-551UL	550	700	480	480	20000	14000	778	950	1400	100	1000			
D7880ZOV551RA620	X	X					32	Z551-620UL	550	700	620	620	25000	20000	778	950	1400	200	950			
S7580ZOV551RA960	X	X					34	D4S-551UL	550	700	960	960	40000	32000	778	950	1400	300	1800			
D7580ZOV551RA960	X	X					40	Z551-960UL	550	700	960	960	40000	32000	778	950	1400	300	1300			
D7780ZOV551RA1500	X	X					53	Z551-1500UL	550	700	2000	2000	70000	52000	778	950	1400	500	2100			
S6680ZOV581RA520	X	X					25	C5S-581UL	580	735	520	520	20000	14000	821	1002	1500	100	990			
D7880ZOV581RA650	X	X					32	Z581-650UL	580	735	650	650	25000	20000	821	1002	1500	200	900			
S7580ZOV581RA1000	X	X					34	D4S-581UL	580	735	1000	1000	40000	32000	821	1002	1500	300	1700			
D7580ZOV581RA1000	X	X					40	Z581-1000UL	580	735	1000	1000	40000	32000	821	1002	1500	300	1200			
D7780ZOV581RA1580	X	X					53	Z581-1580UL	580	735	2100	2100	70000	52000	821	1002	1500	500	2000			
S6680ZOV621RA550	X	X					25	C5S-621UL	620	800	550	550	20000	14000	877	1071	1650	100	920			
D7880ZOV621RA680	X	X					32	Z621-680UL	620	800	680	680	25000	20000	877	1071	1650	200	840			
S7580ZOV621RA1040	X	X					34	D4S-621UL	620	800	1040	1040	40000	32000	877	1071	1650	300	1600			
D7580ZOV621RA1040	X	X					40	Z621-1040UL	620	800	1040	1040	40000	32000	877	1071	1650	300	1100			
D7780ZOV621RA1750	X	X					53	Z621-1750UL	620	800	2200	2200	70000	52000	877	1071	1650	500	1900			

NOTES:

Appendix A lists the single-pulse peak current and energy ratings on file with the Safety Agencies.

Maximum transient rating specified in this table are valid. They may differ from those shown in Appendix A.

A = UL1449 File E321173 - Surge Protective Devices

D = VDE File 40017480

B = cUL File E321173 - Surge Protective Devices

E = SEV - 96.7 70250.01

C = CSA C22.2 File 033468

340VAC thru 620VAC VARISTORS

Maida Style Number	MAX. Diameter (D) (in)	MAX. Thickness (T) (in)	MAX. Height (H) (in)	Typical X Dimension (in)	Typical X Tolerance (in)	Typical Y Dimension (in)	Typical Y Tolerance (in)	Typical Z Dimension (in)	Typical Z Tolerance (in)	Typical Wire Diameter (d) (in)
S6680ZOV341RA365	1.142	0.312	1.970	1.000	0.020	0.164	0.040	N/A	N/A	0.020
D7880ZOV341RA500	1.575	0.312	2.213	1.000	0.020	0.164	0.040	N/A	N/A	0.020
S7580ZOV341RA685	1.476	0.312	2.225	1.000	0.020	0.167	0.040	N/A	N/A	0.020
D7580ZOV341RA685	1.890	0.312	2.370	1.000	0.020	0.167	0.040	N/A	N/A	0.020
D7780ZOV341RA1140	2.400	0.312	3.075	1.000	0.020	0.167	0.040	N/A	N/A	0.020
S6680ZOV361RA370	1.142	0.318	1.970	1.000	0.020	0.173	0.040	N/A	N/A	0.020
D7880ZOV361RA530	1.575	0.318	2.213	1.000	0.020	0.173	0.040	N/A	N/A	0.020
S7580ZOV361RA710	1.476	0.318	2.225	1.000	0.020	0.175	0.040	N/A	N/A	0.020
D7580ZOV361RA710	1.890	0.318	2.370	1.000	0.020	0.175	0.040	N/A	N/A	0.020
D7780ZOV361RA1180	2.400	0.318	3.075	1.000	0.020	0.175	0.040	N/A	N/A	0.020
S6680ZOV391RA380	1.142	0.325	1.970	1.000	0.020	0.178	0.040	N/A	N/A	0.020
D7880ZOV391RA550	1.575	0.312	2.213	1.000	0.020	0.178	0.040	N/A	N/A	0.020
S7580ZOV391RA800	1.476	0.312	2.225	1.000	0.020	0.180	0.040	N/A	N/A	0.020
D7580ZOV391RA800	1.890	0.312	2.370	1.000	0.020	0.180	0.040	N/A	N/A	0.020
D7780ZOV391RA1200	2.400	0.312	3.075	1.000	0.020	0.181	0.040	N/A	N/A	0.020
S6680ZOV421RA390	1.142	0.332	1.970	1.000	0.020	0.187	0.040	N/A	N/A	0.020
D7880ZOV421RA600	1.575	0.332	2.213	1.000	0.020	0.187	0.040	N/A	N/A	0.020
S7580ZOV421RA910	1.476	0.332	2.225	1.000	0.020	0.189	0.040	N/A	N/A	0.020
D7580ZOV421RA910	1.890	0.332	2.370	1.000	0.020	0.189	0.040	N/A	N/A	0.020
D7780ZOV421RA1500	2.400	0.332	3.075	1.000	0.020	0.190	0.040	N/A	N/A	0.020
S6680ZOV461RA430	1.142	0.344	1.970	1.000	0.020	0.198	0.040	N/A	N/A	0.020
D7880ZOV461RA520	1.575	0.344	2.213	1.000	0.020	0.198	0.040	N/A	N/A	0.020
S7580ZOV461RA780	1.476	0.344	2.225	1.000	0.020	0.200	0.040	N/A	N/A	0.020
D7580ZOV461RA780	1.890	0.344	2.370	1.000	0.020	0.200	0.040	N/A	N/A	0.020
D7780ZOV461RA1200	2.400	0.344	3.075	1.000	0.020	0.201	0.040	N/A	N/A	0.020
S6680ZOV481RA440	1.142	0.350	1.970	1.000	0.020	0.203	0.040	N/A	N/A	0.020
D7880ZOV481RA550	1.575	0.350	2.213	1.000	0.020	0.203	0.040	N/A	N/A	0.020
S7580ZOV481RA820	1.476	0.350	2.225	1.000	0.020	0.205	0.040	N/A	N/A	0.020
D7580ZOV481RA820	1.890	0.350	2.370	1.000	0.020	0.205	0.040	N/A	N/A	0.020
D7780ZOV481RA1250	2.400	0.350	3.075	1.000	0.020	0.206	0.040	N/A	N/A	0.020
S6680ZOV511RA450	1.142	0.360	1.970	1.000	0.020	0.212	0.040	N/A	N/A	0.020
D7880ZOV511RA580	1.575	0.360	2.213	1.000	0.020	0.212	0.040	N/A	N/A	0.020
S7580ZOV511RA900	1.476	0.360	2.225	1.000	0.020	0.214	0.040	N/A	N/A	0.020
D7580ZOV511RA900	1.890	0.360	2.370	1.000	0.020	0.214	0.040	N/A	N/A	0.020
D7780ZOV511RA1400	2.400	0.360	3.075	1.000	0.020	0.215	0.040	N/A	N/A	0.020
S6680ZOV551RA480	1.142	0.373	1.970	1.000	0.020	0.222	0.040	N/A	N/A	0.020
D7880ZOV551RA620	1.575	0.373	2.213	1.000	0.020	0.222	0.040	N/A	N/A	0.020
S7580ZOV551RA960	1.476	0.373	2.225	1.000	0.020	0.225	0.040	N/A	N/A	0.020
D7580ZOV551RA960	1.890	0.373	2.370	1.000	0.020	0.225	0.040	N/A	N/A	0.020
D7780ZOV551RA1500	2.400	0.373	3.075	1.000	0.020	0.226	0.040	N/A	N/A	0.020
S6680ZOV581RA520	1.142	0.382	1.970	1.000	0.020	0.231	0.040	N/A	N/A	0.020
D7880ZOV581RA650	1.575	0.382	2.213	1.000	0.020	0.231	0.040	N/A	N/A	0.020
S7580ZOV581RA1000	1.476	0.382	2.225	1.000	0.020	0.234	0.040	N/A	N/A	0.020
D7580ZOV581RA1000	1.890	0.382	2.370	1.000	0.020	0.234	0.040	N/A	N/A	0.020
D7780ZOV581RA1580	2.400	0.382	3.075	1.000	0.020	0.235	0.040	N/A	N/A	0.020
S6680ZOV621RA550	1.142	0.395	1.970	1.000	0.020	0.242	0.040	N/A	N/A	0.020
D7880ZOV621RA680	1.575	0.395	2.213	1.000	0.020	0.242	0.040	N/A	N/A	0.020
S7580ZOV621RA1040	1.476	0.395	2.225	1.000	0.020	0.245	0.040	N/A	N/A	0.020
D7580ZOV621RA1040	1.890	0.395	2.370	1.000	0.020	0.245	0.040	N/A	N/A	0.020
D7780ZOV621RA1750	2.400	0.395	3.075	1.000	0.020	0.247	0.040	N/A	N/A	0.020

NOTE: Alternate dimensional specifications, including lead styles, for any part listed may be available upon request. Please contact us for any inquiries.

HIGH ENERGY SERIES

SPECIFICATIONS

680VAC thru 1000VAC VARISTORS

Maida Style Number	Recognitions To Safety Agency Standards						Nominal Size	Minimum Marking	Maximum Ratings						Electrical Characteristics					
									Continuous		Transient				Varistor Voltage @1 mA DC		Max Clamping Voltage (@Test Current)		Typical Cap.	
									Applied Voltage		Energy		Peak Current							
											10 x 1000 μ sec	8 x 20 μ sec	# Pulses							
									(AC)	(DC)	(J)	(J)	1	2	Vmin	Vmax	(8 x 20 μ sec)		1 V rms @1kHz	
(A)	(B)	(C)	(D)	(E)	(F)	(mm)		(AC)	(DC)	(J)	(J)	(A)	(A)	(V)	(V)	(V)	(A)	(pF)		
S6680ZOV681RA620	X	X				25	C5S-681UL	680	860	620	620	20000	14000	962	1175	1800	100	840		
D7880ZOV681RA760	X	X				32	Z681-760UL	680	860	760	760	25000	20000	962	1175	1800	200	770		
S7580ZOV681RA1100	X	X				34	D4S-681UL	680	860	1100	1100	40000	32000	962	1175	1800	300	1500		
D7580ZOV681RA1100	X	X				40	Z681-1100UL	680	860	1100	1100	40000	32000	962	1175	1800	300	1000		
D7780ZOV681RA1800	X	X				53	Z681-1800UL	680	860	2500	2500	70000	52000	962	1175	1800	500	1700		
S6680ZOV751RA670	X	X				25	C5S-751UL	750	970	670	670	20000	14000	1062	1300	2100	100	750		
D7880ZOV751RA800	X	X				32	Z751-800UL	750	970	800	800	25000	20000	1062	1300	2100	200	680		
S7580ZOV751RA1200	X	X				34	D4S-751UL	750	970	1200	1200	40000	32000	1062	1300	2100	300	1300		
D7580ZOV751RA1200	X	X				40	Z751-1200UL	750	970	1200	1200	40000	32000	1062	1300	2100	300	940		
D7780ZOV751RA2000	X	X				53	Z751-2000UL	750	970	2600	2600	70000	52000	1062	1300	2100	500	1500		
S6680ZOV881RA780	X	X				25	C5S-881UL	880	1150	780	780	20000	14000	1245	1520	2290	100	650		
D7880ZOV881RA850	X	X				32	Z881-850UL	880	1150	850	850	25000	20000	1245	1520	2290	200	590		
S7580ZOV881RA1300	X	X				34	D4S-881UL	880	1150	1300	1300	40000	32000	1245	1520	2290	300	1100		
D7580ZOV881RA1300	X	X				40	Z881-1300UL	880	1150	1300	1300	40000	32000	1245	1520	2290	300	810		
D7780ZOV881RA2500	X	X				53	Z881-2500UL	880	1150	3200	3200	70000	52000	1245	1520	2290	500	1300		
S6680ZOV102RA860	X	X				25	C5S-102UL	1000	1200	860	860	20000	14000	1414	1728	2700	100	570		
D7880ZOV102RA900	X					32	Z102-900UL	1000	1200	900	900	25000	20000	1414	1728	2700	200	520		
S7580ZOV102RA1400	X	X				34	D4S-102UL	1000	1200	1400	1400	40000	32000	1414	1728	2700	300	1000		
D7580ZOV102RA1400	X					40	Z102-1400UL	1000	1200	1400	1400	40000	32000	1414	1728	2700	300	710		
D7780ZOV102RA3000	X					53	Z102-3000UL	1000	1200	3200	3200	70000	52000	1414	1728	2700	500	1200		

NOTES:

Appendix A lists the single-pulse peak current and energy ratings on file with the Safety Agencies.

Maximum transient rating specified in this table are valid. They may differ from those shown in Appendix A.

A = UL1449 File E321173 - Surge Protective Devices

D = VDE File 40017480

B = cUL File E321173 - Surge Protective Devices

E = SEV - 96.7 70250.01

C = CSA C22.2 File 033468

680VAC thru 1000VAC VARISTORS

Maida Style Number	MAX. Diameter (D) (in)	MAX. Thickness (T) (in)	MAX. Height (H) (in)	Typical X Dimension (in)	Typical X Tolerance (in)	Typical Y Dimension (in)	Typical Y Tolerance (in)	Typical Z Dimension (in)	Typical Z Tolerance (in)	Typical Wire Diameter (d) (in)
S6680ZOV681RA620	1.142	0.414	1.970	1.000	0.020	0.259	0.040	N/A	N/A	0.020
D7880ZOV681RA760	1.575	0.414	2.213	1.000	0.020	0.259	0.040	N/A	N/A	0.020
S7580ZOV681RA1100	1.476	0.414	2.225	1.000	0.020	0.262	0.040	N/A	N/A	0.020
D7580ZOV681RA1100	1.890	0.414	2.370	1.000	0.020	0.262	0.040	N/A	N/A	0.020
D7780ZOV681RA1800	2.400	0.414	3.075	1.000	0.020	0.264	0.040	N/A	N/A	0.020
S6680ZOV751RA670	1.142	0.460	1.970	1.000	0.020	0.282	0.040	N/A	N/A	0.020
D7880ZOV751RA800	1.575	0.460	2.213	1.000	0.020	0.281	0.040	N/A	N/A	0.020
S7580ZOV751RA1200	1.476	0.460	2.225	1.000	0.020	0.286	0.040	N/A	N/A	0.020
D7580ZOV751RA1200	1.890	0.460	2.370	1.000	0.020	0.284	0.040	N/A	N/A	0.020
D7780ZOV751RA2000	2.400	0.460	3.075	1.000	0.020	0.286	0.040	N/A	N/A	0.020
S6680ZOV881RA780	1.142	0.476	1.970	1.000	0.020	0.314	0.040	N/A	N/A	0.020
D7880ZOV881RA850	1.575	0.476	2.213	1.000	0.020	0.314	0.040	N/A	N/A	0.020
S7580ZOV881RA1300	1.476	0.476	2.225	1.000	0.020	0.319	0.040	N/A	N/A	0.020
D7580ZOV881RA1300	1.890	0.476	2.370	1.000	0.020	0.319	0.040	N/A	N/A	0.020
D7780ZOV881RA2500	2.400	0.476	3.075	1.000	0.020	0.321	0.040	N/A	N/A	0.020
S6680ZOV102RA860	1.142	0.514	1.970	1.000	0.020	0.349	0.040	N/A	N/A	0.020
D7880ZOV102RA900	1.575	0.514	2.213	1.000	0.020	0.349	0.040	N/A	N/A	0.020
S7580ZOV102RA1400	1.476	0.514	2.225	1.000	0.020	0.354	0.040	N/A	N/A	0.020
D7580ZOV102RA1400	1.890	0.514	2.370	1.000	0.020	0.354	0.040	N/A	N/A	0.020
D7780ZOV102RA3000	2.400	0.514	3.075	1.000	0.020	0.356	0.040	N/A	N/A	0.020

NOTE: Alternate dimensional specifications, including lead styles, for any part listed may be available upon request. Please contact us for any inquiries.