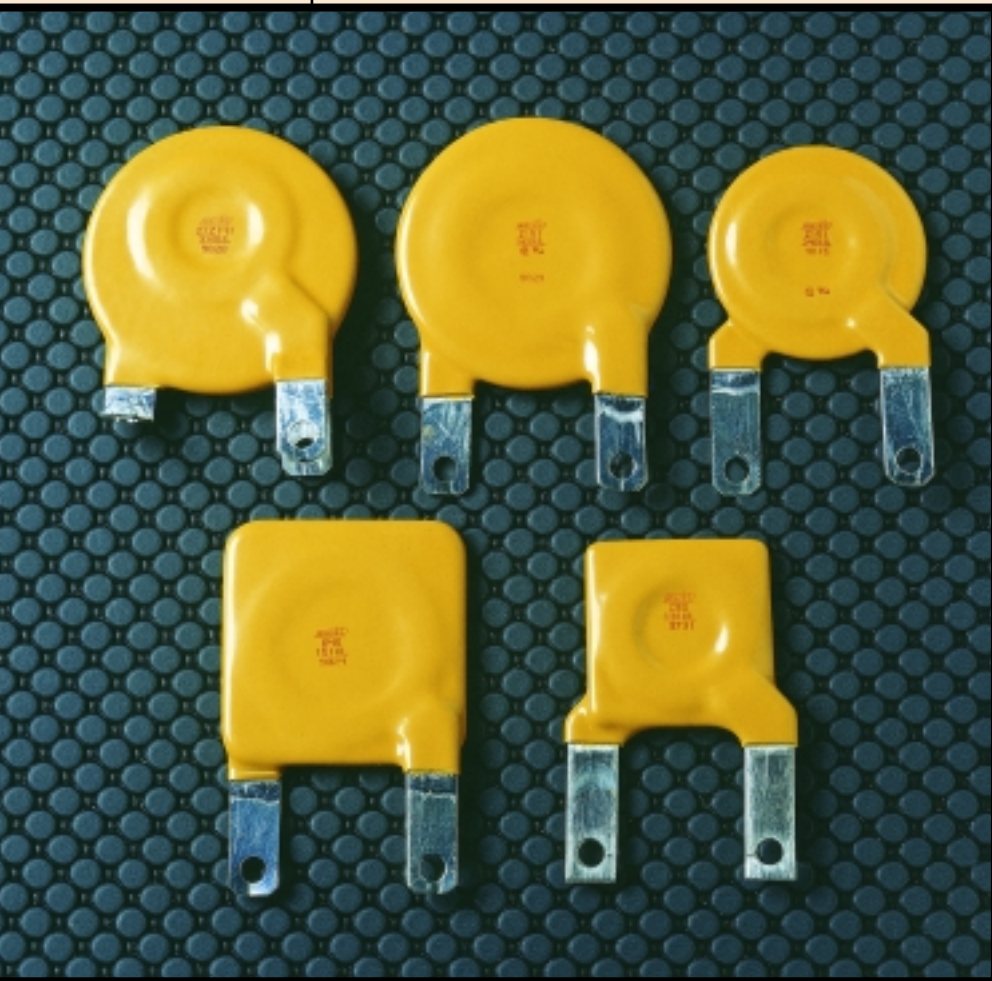
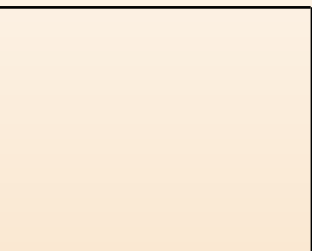




HIGH ENERGY
SERIES



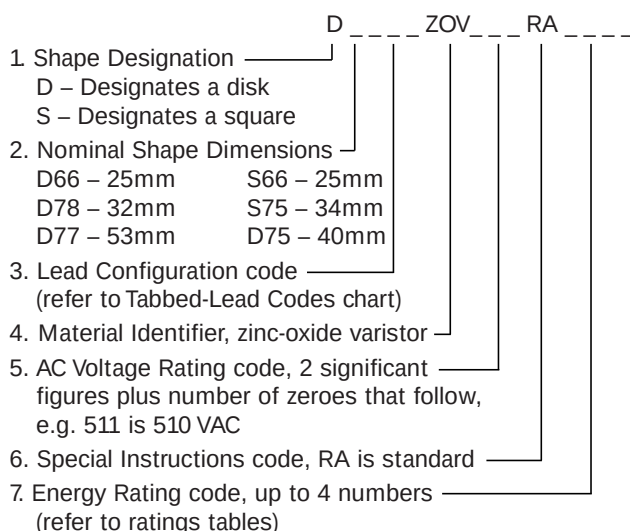
High Energy Series

The High Energy Series, large tab-leaded varistors, are designed to handle extremely high peak currents and have the ability to absorb large amounts of energy. They are available in round and square shapes to allow mounting in various spaces. They are also available in "dual" configurations that allow the user to apply these parts in series or parallel circuit topologies.

These varistors are available in 32mm, 40mm, and 53mm single-disk configurations; 25mm and 34mm single-square configurations; 40mm dual-disk configuration; and 25mm and 34mm dual-square configurations. Several styles of tabbed-leads are available to accommodate various mounting schemes. The voltages for which these components are available, range from 130VAC to 1000VAC.

Style Designation

The Maida Style number is the primary means to identify our components when ordered. The style number identifies several parameters that are important for the characteristics of the device. Observe the following part numbering system when ordering our components:



An example of a typical Maida style number is D7780ZOV151RA570. This style number displays a nominal disk size of 53mm, a standard lead code showing straight tabbed-leads, a maximum AC continuous operating voltage of 150 VAC.

Standard Marking

Minimum marking information shall consist of an abbreviated style designation and, when space is available, the manufacturer's initials "MDC" or the company logo. The abbreviated style designation is dependent upon the configuration of the component. In other words, the abbreviation for the disk shaped components will be different than for the square shaped components. The marking will include a "2X" if the component has a dual configuration.

An example for a disk component,

MDC
 2XZ511
 110UL

Where:

2X – Dual configuration
 Z – Represents "ZOV"
 511 – AC voltage rating code
 110 – Energy rating code
 UL – UL recognition if applicable

An example for a square component,

MDC
 C5S
 151UL

Where:

C5 – Represents 25mm nominal ceramic size
 S – Designates square
 151 – AC voltage rating code
 UL – UL recognition if applicable

The codes for the square components are based on the following number system:

A – 0
 B – 1
 C – 2
 D – 3
 E – 4
 F – 5

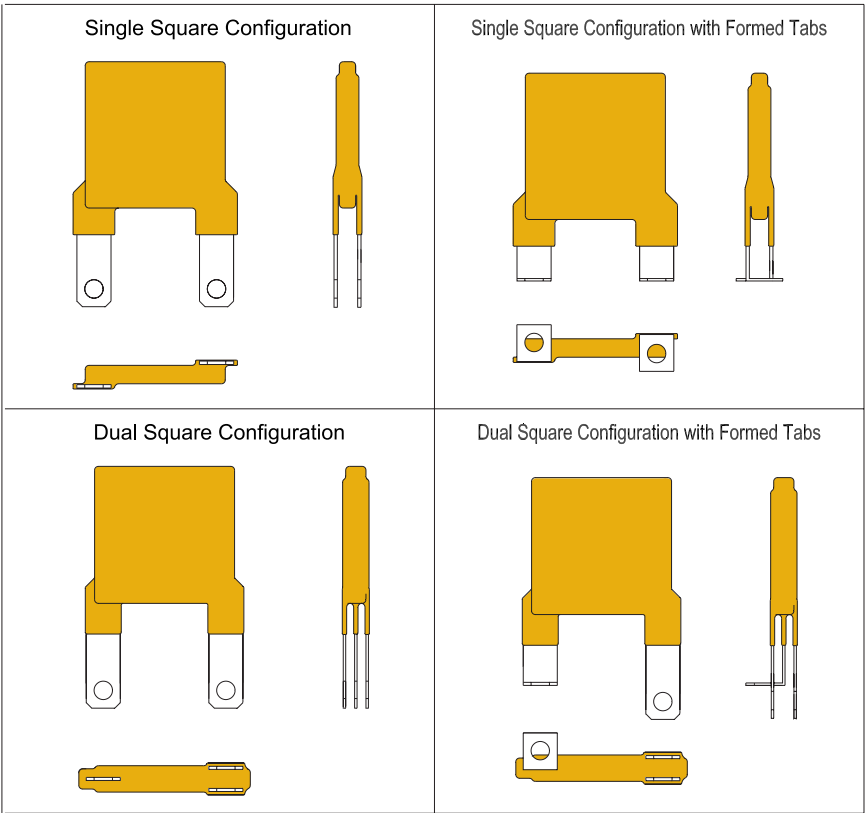
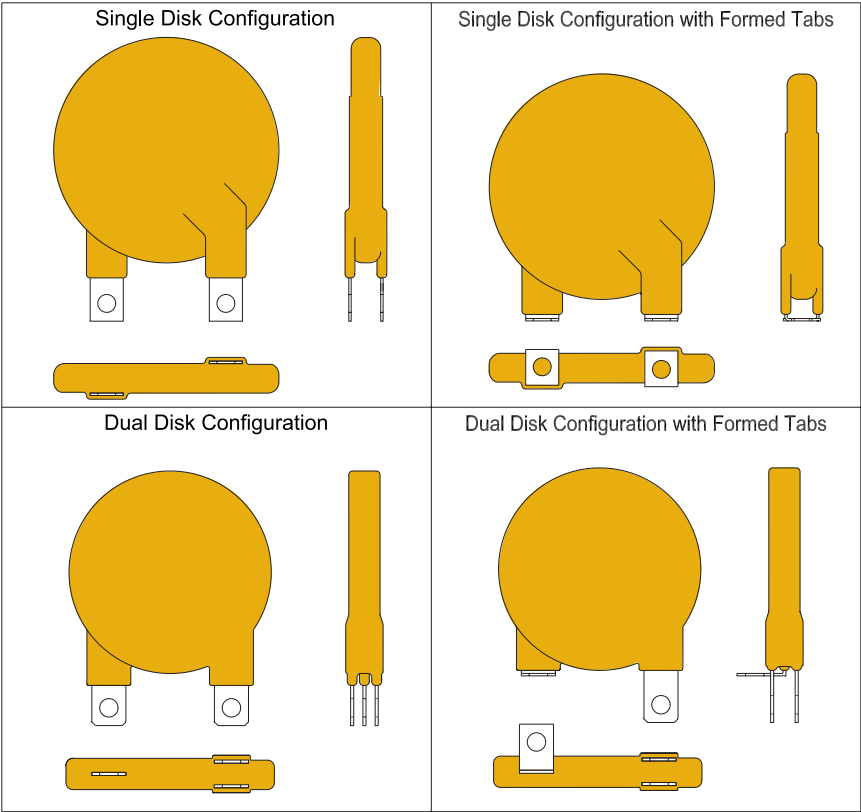
Consequently, the "C5" designation in the above example represents the number 25.

A manufacturing date code is available upon request. Other safety agency designations are included if applicable.

How to Order the High Energy Series

The following specifications tables provide a way to match the Maida style number to a varistor that provides the necessary specifications for a specific application. Once the general style number is obtained, it will be necessary to determine the required lead configuration. Refer to the tabbed-lead codes and apply the required code to the Maida style number when ordering. Custom lead configurations are available. Contact our engineering department for additional information.

CONFIGURATIONS



32mm Single — Disk Configuration

32mm Single - Disk Configurati																
Maida Style Number	Recognitions To Safety Agency Standards						Minimum Marking	Maximum Ratings					Ele			
								Continuous		Transient			Varistor Voltage @ 1mA DC			
	Applied Voltage	Energy 10x1000 µsec	Peak Current 8x20 µsec # Pulses	1	Vmin	Vmax										
								(AC)	(DC)	(J)	(A)	(V)				(V)
D78	ZOV131RA210	X	X	X			Z131-210UL	130	175	210	25000	184	224			
D78	ZOV141RA225	X	X	X			Z141-225UL	140	180	225	25000	198	242			
D78	ZOV151RA240	X	X	X			Z151-240UL	150	200	240	25000	212	259			
D78	ZOV181RA250	X	X	X			Z181-250UL	180	230	250	25000	255	311			
D78	ZOV231RA300	X	X	X			Z231-300UL	230	300	300	25000	326	397			
D78	ZOV251RA330	X	X	X			Z251-330UL	250	330	330	25000	354	432			
D78	ZOV271RA360	X	X	X			Z271-360UL	270	360	360	25000	382	466			
D78	ZOV301RA380	X	X	X			Z301-380UL	300	390	380	25000	425	518			
D78	ZOV321RA430	X	X	X			Z321-430UL	320	420	430	25000	453	553			
D78	ZOV391RA550	X	X	X			Z391-550UL	390	505	550	25000	552	674			
D78	ZOV421RA600	X	X	X			Z421-600UL	420	560	600	25000	594	725			
D78	ZOV461RA520	X	X	X			Z461-520UL	460	615	520	25000	651	795			
D78	ZOV481RA550	X	X	X			Z481-550UL	480	640	550	25000	679	829			
D78	ZOV511RA580	X	X	X			Z511-580UL	510	675	580	25000	722	881			
D78	ZOV551RA620	X	X	X			Z551-620UL	550	700	620	25000	778	950			
D78	ZOV581RA650	X	X	X			Z581-650UL	580	735	650	25000	821	1002			
D78	ZOV621RA680	X	X	X			Z621-680UL	620	800	680	25000	877	1071			
D78	ZOV681RA760	X	X	X			Z681-760UL	680	860	760	25000	962	1175			
D78	ZOV751RA800	X	X	X			Z751-800UL	750	970	800	25000	1062	1300			
D78	ZOV881RA850	X	X	X			Z881-850UL	880	1150	850	25000	1245	1520			
D78	ZOV102RA900	X	X	X			Z102-900UL	1000	1200	900	25000	1414	1728			

NOTES:

* Footprint configuration converts to Fig. 3.

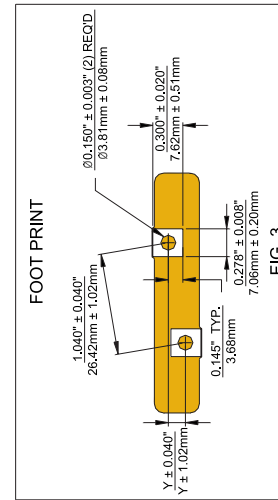


FIG. 3

Detailed Voltage vs. Current characteristic curves for each component are available from our engineering department.

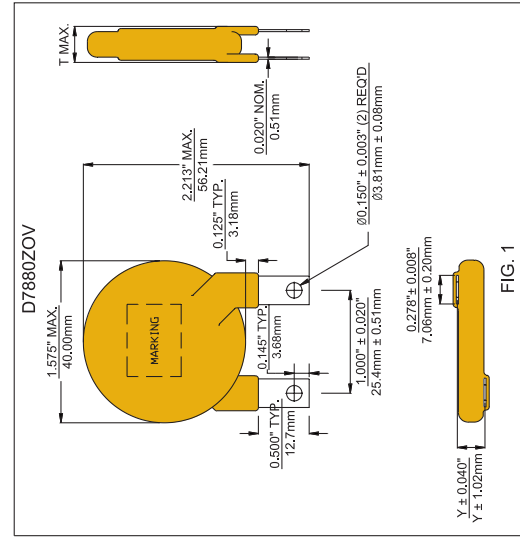


FIG. 1

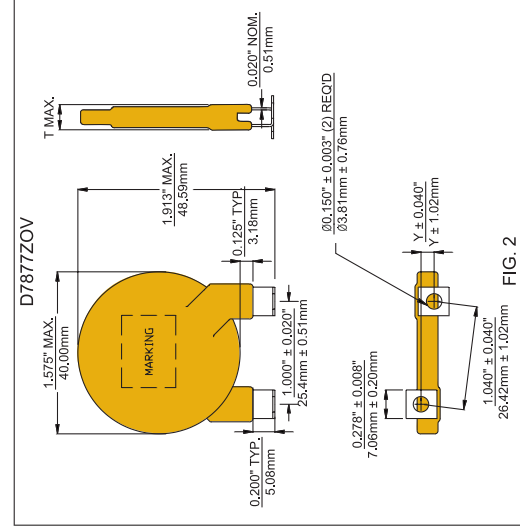


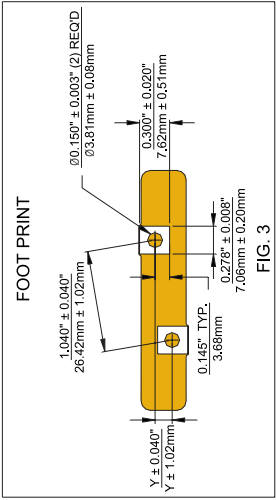
FIG. 2

SPECIFICATIONS

40mm Single – Disk Configuration

40mm Single - Disk Configuration														
Maida Style Number	Recognitions To Safety Agency Standards					Minimum Marking	Maximum Ratings				Electrical Cha			
							Continuous		Transient		Varistor		Max C	
							Applied Voltage	Energy 10x1000 μsec	Peak Current 8x20 μsec #Pulses	Vmin (V)	Vmax (V)	Vo (V)	(@ 1mA DC Tet	
														(AC)
D75 ZOV131RA310	X	X	X			Z131 - 310UL	130	175	310	40000	184	224	340	
D75 ZOV141RA330	X	X	X			Z141 - 330UL	140	180	330	40000	198	242	360	
D75 ZOV151RA360	X	X	X			Z151 - 360UL	150	200	360	40000	212	259	395	
D75 ZOV181RA390	X	X	X			Z181 - 390UL	180	230	390	40000	255	311	465	
D75 ZOV231RA460	X	X	X			Z231 - 460UL	230	300	460	40000	326	397	595	
D75 ZOV251RA490	X	X	X			Z251 - 490UL	250	330	490	40000	354	432	650	
D75 ZOV271RA550	X	X	X			Z271 - 550UL	270	360	550	40000	382	466	710	
D75 ZOV301RA600	X	X	X			Z301 - 600UL	300	390	600	40000	425	518	790	
D75 ZOV321RA640	X	X	X			Z321 - 640UL	320	420	640	40000	453	553	850	
D75 ZOV391RA800	X	X	X			Z391 - 800UL	390	505	800	40000	552	674	1025	
D75 ZOV421RA910	X	X	X			Z421 - 910UL	420	560	910	40000	594	725	1120	
D75 ZOV461RA780	X	X	X			Z461 - 780UL	460	615	780	40000	651	795	1240	
D75 ZOV481RA820	X	X	X			Z481 - 820UL	480	640	820	40000	679	829	1300	
D75 ZOV511RA900	X	X	X			Z511 - 900UL	510	675	900	40000	722	881	1350	
D75 ZOV551RA960	X	X	X			Z551 - 960UL	550	700	960	40000	778	950	1400	
D75 ZOV581RA1000	X	X	X			Z581 - 1000UL	580	735	1000	40000	821	1002	1500	
D75 ZOV621RA1040	X	X	X			Z621 - 1040UL	620	800	1040	40000	877	1071	1650	
D75 ZOV681RA1100	X	X	X			Z681 - 1100UL	680	860	1100	40000	962	1175	1800	
D75 ZOV751RA1200	X	X	X			Z751 - 1200UL	750	970	1200	40000	1062	1300	2100	
D75 ZOV881RA1300	X	X	X			Z881 - 1300UL	880	1150	1300	40000	1245	1520	2290	
D75 ZOV102RA1400	X	X	X			Z102 - 1400UL	1000	1200	1400	40000	1414	1728	2700	

NOTES:
A = UL1449 File E86730 - Transient Voltage Surge Suppression
B = UL1414 File E38785 - Across - The Line Applications
C = CSA C22.2 File LR33468



Detailed Voltage vs. Current characteristic curves for each component are available from our engineering department.

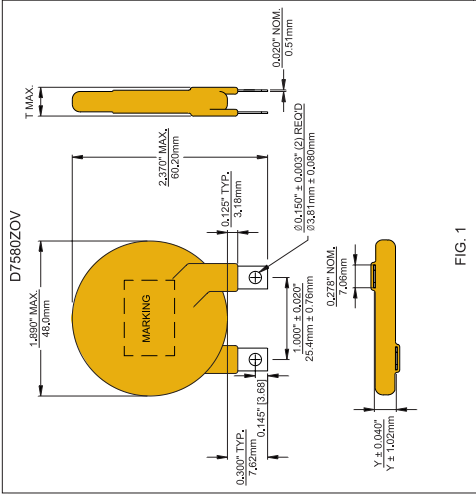


FIG. 1

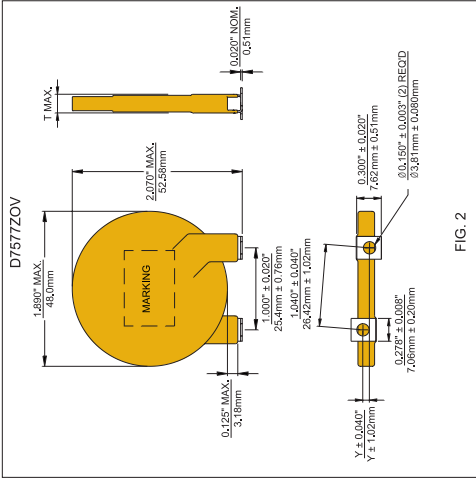


FIG. 2

40mm Dual – Disk Configuration

All measurements in reference													
Minimum Marking						Continuous		Transient					
						Applied Voltage	Energy 10x1000 μ sec	Peak Current 8x20 μ sec #Pulses					
Maida Style Number	Recognitions To Safety Agency Standards						A	B	C	D	E	F	
	D75	ZOV	131	RA	310	X	130	175	310	40000			
	D75	ZOV	141	RA	330	X	140	180	330	40000			
	D75	ZOV	151	RA	360	X	150	200	360	40000			
	D75	ZOV	181	RA	390	X	180	230	390	40000			
	D75	ZOV	231	RA	460	X	230	300	460	40000			
	D75	ZOV	251	RA	490	X	250	330	490	40000			
	D75	ZOV	271	RA	550	X	270	360	550	40000			
	D75	ZOV	301	RA	600	X	300	390	600	40000			
D75	ZOV	321	RA	640	X	320	420	640	40000				

NOTES:

A = UL1449 File E86730 - Transient Voltage Surge Suppression

B = UL1414 File E38785 - Across - The Line Applications

C = CSA C22.2 File LR33468

Insert (D8) in blanks to indicate STRAIGHT tabs

or (C6) to indicate FORMED FOOT

(i.e. D75D8ZOV131RA310 or D75C6ZOV131RA310)

"W" Dimension in figures is 1/2 of "Y" DIMENSION.

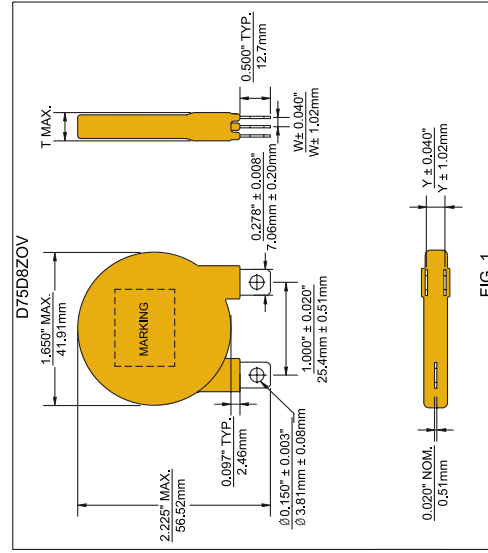


FIG. 1

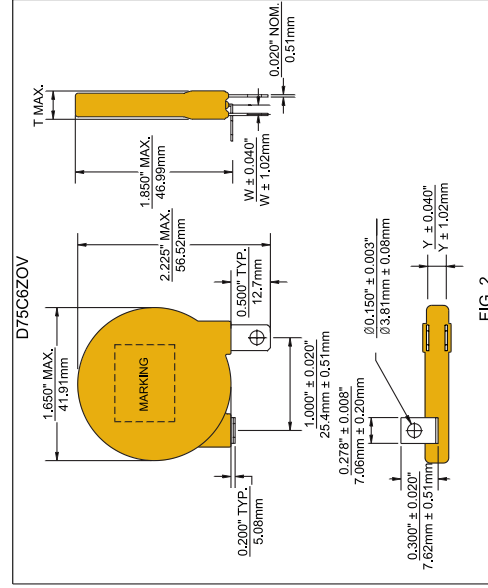


FIG. 2

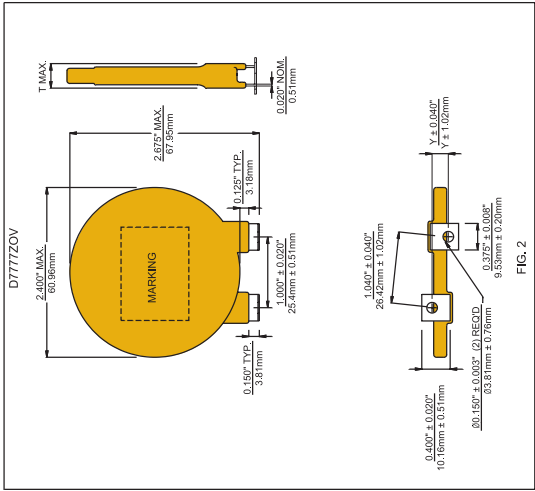
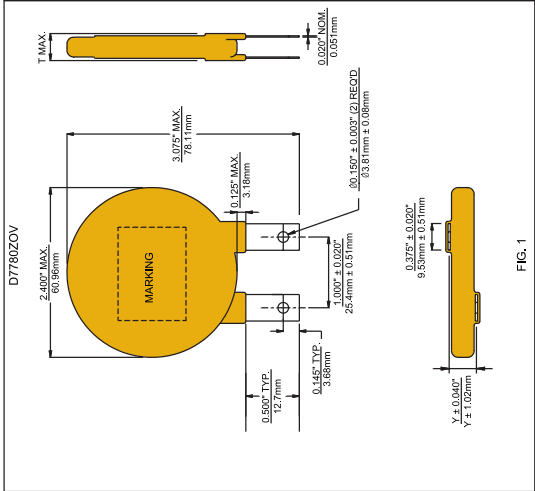
Detailed Voltage vs. Current characteristic curves for each component are available from our engineering department.

SPECIFICATIONS

53mm Single – Disk Configur

53mm Single - Disk Configurat														
Maida Style Number	Recognitions To Safety Agency Standards				Minimum Marking	Maximum Ratings				Elec				
						Continuous	Transient		Varistor Voltage @ 1mA DC					
	Applied Voltage	Energy 10x1000 μsec	Peak Current 8x20 μsec #Pulses											
	A	B	C	D		E	F	(AC)	(DC)	(J)	(A)	(V)	Vmin	Vmax
D77	ZOV131RA490	X	X	X		Z131 - 490UL	130	175	490	70000	184	224		
D77	ZOV141RA530	X	X	X		Z141 - 530UL	140	180	530	70000	198	242		
D77	ZOV151RA570	X	X	X		Z151 - 570UL	150	200	570	70000	212	259		
D77	ZOV181RA630	X	X	X		Z181 - 630UL	180	230	630	70000	255	311		
D77	ZOV231RA730	X	X	X		Z231 - 730UL	230	300	730	70000	326	397		
D77	ZOV251RA800	X	X	X		Z251 - 800UL	250	330	880	70000	354	432		
D77	ZOV271RA860	X	X	X		Z271 - 860UL	270	360	950	70000	382	466		
D77	ZOV301RA940	X	X	X		Z301 - 940UL	300	390	1000	70000	425	518		
D77	ZOV321RA1000	X	X	X		Z321 - 1000UL	320	420	1100	70000	453	553		
D77	ZOV391RA1200	X	X	X		Z391 - 1200UL	390	505	1200	70000	552	674		
D77	ZOV421RA1500	X	X	X		Z421 - 1500UL	420	560	1500	70000	594	725		
D77	ZOV461RA1200	X	X	X		Z461 - 1200UL	460	615	1600	70000	651	795		
D77	ZOV481RA1250	X	X	X		Z481 - 1250UL	480	640	1600	70000	679	829		
D77	ZOV511RA1400	X	X	X		Z511 - 1400UL	510	675	1800	70000	722	881		
D77	ZOV551RA1500	X	X	X		Z551 - 1500UL	550	700	2000	70000	778	950		
D77	ZOV581RA1580	X	X	X		Z581 - 1580UL	580	735	2100	70000	821	1002		
D77	ZOV621RA1750	X	X	X		Z621 - 1750UL	620	800	2200	70000	877	1071		
D77	ZOV681RA1800	X	X	X		Z681 - 1800UL	680	860	2500	70000	962	1175		
D77	ZOV751RA2000	X	X	X		Z751 - 2000UL	750	970	2600	70000	1062	1300		
D77	ZOV881RA2500	X	X	X		Z881 - 2500UL	880	1150	3200	70000	1245	1520		
D77	ZOV102RA3000	X	X	X		Z102 - 3000UL	1000	1200	3200	70000	1414	1728		

NOTES:-



Detailed Voltage vs. Current characteristic curves for each component are available from our engineering department.

25mm Single – Square Configuration

25mm Single - Square Configuration																									
Maida Style Number		Recognitions To Safety Agency Standards				Minimum Marking		Maximum Ratings					Electrical					Typical Cap 1 V rms							
								Continuous Applied Voltage	Transient		Varistor Voltage @ 1mA DC	I (A)													
									Energy 10x1000 μsec	Peak Current 8x20 μsec # Pulses															
																(AC)	(DC)					(J)	(A)	(V)	(V)
A	B	C	D	E	F	C5S - 131UL	130	175	180	23000	184	224	2340	340	100	4500	0.105	2.67	0.205	5.21	MM	IN	MM	IN	MM
S66	ZOV13	1RA180	X	X		C5S - 141UL	140	180	190	23000	198	242	360	360	100	4000	0.108	2.74	0.202	5.13	0.252	6.40			
S66	ZOV14	1RA190	X	X		C5S - 151UL	150	200	200	23000	212	259	395	395	100	3700	0.112	2.84	0.198	5.03	0.257	6.53			
S66	ZOV15	1RA200	X	X		C5S - 181UL	180	230	250	23000	255	311	465	465	100	3200	0.120	3.05	0.190	4.83	0.267	6.78			
S66	ZOV18	1RA250	X	X		C5S - 211UL	210	270	270	23000	297	363	545	545	100	2700	0.129	3.28	0.181	4.60	0.294	7.47			
S66	ZOV21	1RA270	X	X		C5S - 231UL	230	300	290	23000	326	397	595	595	100	2500	0.134	3.40	0.176	4.47	0.280	7.11			
S66	ZOV23	1RA290	X	X		C5S - 251UL	250	330	330	23000	354	432	650	650	100	2300	0.139	3.53	0.171	4.34	0.287	7.29			
S66	ZOV25	1RA310	X	X		C5S - 271UL	270	360	350	23000	382	466	710	710	100	2100	0.144	3.66	0.166	4.22	0.294	7.47			
S66	ZOV27	1RA330	X	X		C5S -301UL	300	390	370	23000	425	518	790	790	100	1900	0.155	3.94	0.155	3.94	0.305	7.75			
S66	ZOV30	1RA350	X	X		C5S - 321UL	320	420	450	23000	453	553	850	850	100	1800	0.158	4.01	0.152	3.86	0.312	7.92			
S66	ZOV32	1RA370	X	X		C5S - 361UL	360	470	460	23000	522	638	960	960	100	1500	0.167	4.24	0.143	3.63	0.318	8.08			
S66	ZOV36	1RA370	X	X		C5S - 391UL	390	505	480	23000	552	674	1025	1025	100	1500	0.173	4.39	0.137	3.48	0.325	8.26			
S66	ZOV39	1RA380	X	X		C5S - 421UL	420	560	500	23000	594	725	1120	1120	100	1400	0.185	4.70	0.125	3.18	0.332	8.43			
S66	ZOV42	1RA390	X	X		C5S - 461UL	460	615	510	23000	651	795	1240	1240	100	1200	0.200	5.08	0.110	2.79	0.344	8.74			
S66	ZOV46	1RA430	X	X		C5S - 481UL	480	640	520	23000	679	829	1300	1300	100	1200	0.203	5.16	0.107	2.72	0.350	8.89			
S66	ZOV48	1RA440	X	X		C5S - 511UL	510	675	540	23000	722	881	1350	1350	100	1100	0.212	5.38	0.083	2.49	0.360	9.14			
S66	ZOV51	1RA450	X	X		C5S - 551UL	550	700	560	23000	778	950	1400	1400	100	1000	0.222	5.64	0.068	2.23	0.373	9.47			
S66	ZOV55	1RA480	X	X		C5S - 581UL	580	735	600	23000	821	1002	1500	1500	100	990	0.231	5.87	0.060	2.01	0.382	9.70			
S66	ZOV58	1RA520	X	X		C5S - 621UL	620	800	620	23000	877	1071	1650	1650	100	920	0.242	6.15	0.053	1.73	0.395	10			
S66	ZOV62	1RA550	X	X		C5S - 681UL	680	860	675	23000	962	1175	1800	1800	100	840	0.251	6.38	0.037	1.50	0.414	10.5			
S66	ZOV68	1RA620	X	X		C5S - 751UL	750	970	725	23000	1062	1300	2100	2100	100	750	0.259	6.58	0.010	1.30	0.460	11.7			
S66	ZOV75	1RA670	X	X		C5S - 881UL	880	1150	825	23000	1245	1520	2290	2290	100	560	0.325	8.26	0.015	0.98	0.476	12.1			
S66	ZOV88	1RA780	X	X		C5S - 1021UL	1020	1200	925	23000	1414	1728	2700	2700	100	570	0.349	8.88	0.039	0.99	0.514	13.1			
S66	ZOV102	1RA860	X	X		C5S - 1021UL	1020	1200	925	23000	1414	1728	2700	2700	100	570	0.349	8.88	0.039	0.99	0.514	13.1			

SPECIFICATIONS

25mm Dual – Square Configuration

25mm Dual - Square Configuration																												
Mold Style Number	Recognitions To Safety Agency Standards						Maximum Ratings										Electrical											
							All measurements in reference to center lead for each										Typical Cap 1 V rms											
							Continuous		Applied Voltage		Energy 10x1000 μsec		Transient		Peak Current 8x20 μsec # Pulses								Varsitor Voltage @ 1mA DC		M (@		pF	
A	B	C	D	E	F	(AC)	(DC)	(J)	(A)	(V)	Vmax	I	(A)	(V)	IN	MM	IN	MM	IN	MM								
S66	ZOV131RA180	X					130	175	180	20000	184	224	340	100	4300	0.100	2.54	0.100	2.54	0.248	6.30							
S66	ZOV141RA190	X					140	180	190	20000	198	242	360	100	4084	0.110	2.79	0.110	2.79	0.252	6.40							
S66	ZOV151RA200	X					150	200	200	20000	212	259	395	100	3700	0.110	2.79	0.110	2.79	0.257	6.53							
S66	ZOV181RA250	X					180	230	250	20000	255	311	470	100	3200	0.110	2.79	0.110	2.79	0.267	6.78							
S66	ZOV231RA290	X					230	300	290	20000	326	397	595	100	2500	0.130	3.30	0.130	3.30	0.280	7.11							
S66	ZOV251RA310	X					250	330	330	20000	354	432	650	100	2300	0.140	3.56	0.140	3.56	0.287	7.29							
S66	ZOV271RA330	X					270	360	340	20000	382	466	710	100	2100	0.140	3.56	0.140	3.56	0.294	7.47							
S66	ZOV301RA350	X					300	390	350	20000	425	518	790	100	1900	0.150	3.81	0.150	3.81	0.305	7.75							
S66	ZOV321RA360	X					320	420	360	20000	453	553	850	100	1800	0.150	3.81	0.150	3.81	0.312	7.92							
S66	ZOV391RA380	X					390	505	380	20000	552	674	1025	100	1488	0.170	4.32	0.170	4.32	0.312	7.92							
S66	ZOV421RA390	X					420	560	390	20000	594	725	1120	100	1400	0.180	4.57	0.180	4.57	0.332	8.43							
S66	ZOV461RA430	X					460	615	430	20000	651	795	1240	100	1243	0.190	4.83	0.190	4.83	0.344	8.74							
S66	ZOV481RA440	X					480	640	440	20000	679	829	1300	100	1200	0.190	4.83	0.190	4.83	0.350	8.89							
S66	ZOV511RA450	X					510	675	450	20000	722	881	1390	100	1100	0.200	5.08	0.200	5.08	0.360	9.14							
S66	ZOV551RA480	X					550	700	480	20000	778	950	1500	100	1045	0.220	5.59	0.220	5.59	0.373	9.47							
S66	ZOV581RA520	X					580	735	520	20000	821	1002	1575	100	987	0.220	5.59	0.220	5.59	0.382	9.70							
S66	ZOV621RA550	X					620	800	550	20000	877	1071	1670	100	923	0.230	5.84	0.230	5.84	0.395	10							
S66	ZOV681RA620	X					680	860	620	20000	962	1175	1815	100	841	0.250	6.35	0.250	6.35	0.414	10.5							
S66	ZOV751RA670	X					750	970	670	20000	1062	1300	2000	100	749	0.280	7.11	0.280	7.11	0.460	11.7							

NOTES:
A = UL1449 File E86730 - Transient Voltage Surge Suppression
B = UL1414 File E38785 - Across - The Line Applications
C = CSA C22.2 File LR33468

Insert (D8) in blanks to indicate STRAIGHT tabs
(i.e. S66D8ZOV131RA180 or S66C6ZOV131RA180)

"W" Dimension in figures is 1/2 of "Y" dimension.

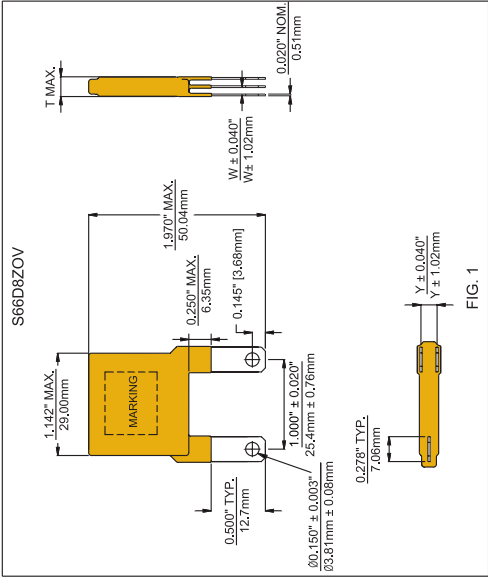


FIG. 1

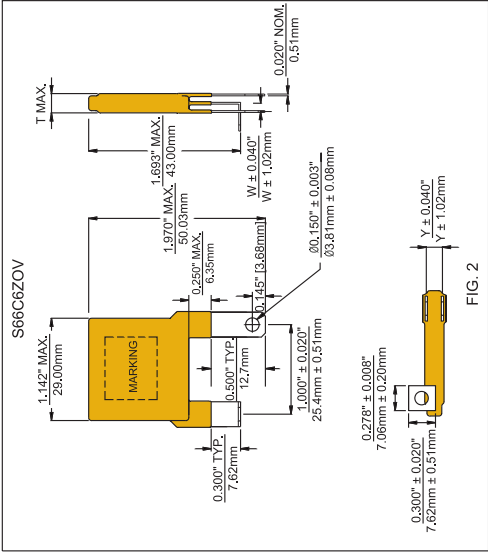


FIG. 2

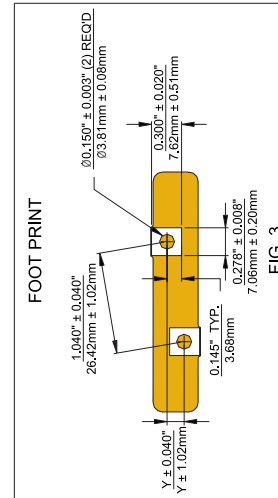
Detailed Voltage vs. Current characteristic curves for each component are available from our engineering department.

34mm Single – Square Configuration

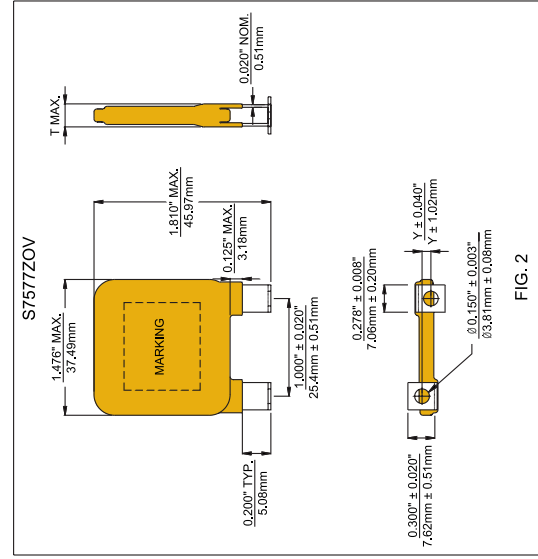
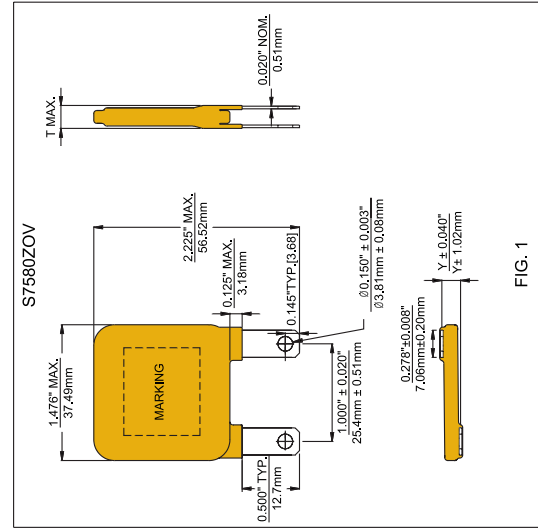
34mm Single - Square Configuration																						
Maida Style Number		Recognitions To Safety Agency Standards		Minimum Marking		Maximum Ratings					Electrical C					Typical Cap						
						Continuous Applied Voltage		Energy 10x1000 μ sec		Transient Peak Current 8x20 μ sec # Pulses		Varistor Voltage @ 1mA DC		Mk (@)								
A	B	C	D	E	F	(AC)	(DC)	(J)	(A)	(V)	Vmin (V)	Vmax (V)	(i (V)	(A)	IN	MM	IN	MM	IN	MM	IN	MM
S75	ZOV131RA310	X	X				130	175	310	40000	184	224	340	300	10000	0.105	2.67	0.205	5.21	0.248	6.30	
S75	ZOV141RA330	X	X				140	180	330	40000	198	242	360	300	9000	0.108	2.74	0.202	5.13	0.252	6.43	
S75	ZOV151RA360	X	X				150	200	360	40000	212	259	395	300	8000	0.112	2.84	0.198	5.03	0.257	6.53	
S75	ZOV181RA390	X	X				180	230	390	40000	255	311	465	300	7100	0.120	3.05	0.190	4.83	0.267	6.78	
S75	ZOV211RA430	X	X				210	270	430	40000	297	363	640	300	4800	0.129	3.28	0.181	4.60	0.275	6.99	
S75	ZOV231RA460	X	X				230	300	460	40000	326	397	595	300	5600	0.134	3.40	0.176	4.47	0.280	7.11	
S75	ZOV251RA490	X	X				250	330	490	40000	354	432	650	300	5000	0.139	3.53	0.171	4.34	0.287	7.29	
S75	ZOV271RA550	X	X				270	360	550	40000	382	466	710	300	4500	0.144	3.66	0.166	4.22	0.294	7.47	
S75	ZOV301RA600	X	X				300	390	600	40000	425	518	790	300	4000	0.155	3.94	0.152	3.94	0.305	7.75	
S75	ZOV321RA640	X	X				320	420	640	40000	453	553	850	300	3800	0.158	4.01	0.152	3.86	0.312	7.92	
S75	ZOV361RA710	X	X				360	470	710	40000	522	638	950	300	2700	0.175	4.45	0.135	3.43	0.318	8.08	
S75	ZOV391RA800	X	X				390	505	800	40000	552	674	1025	300	3300	0.173	4.39	0.137	3.48	0.312	7.92	
S75	ZOV421RA910	X	X				420	560	910	40000	594	725	1120	300	3000	0.185	4.70	0.127	3.23	0.332	8.43	
S75	ZOV461RA780	X	X				460	615	920	40000	651	795	1240	300	2600	0.200	5.08	0.107	2.79	0.344	8.74	
S75	ZOV481RA820	X	X				480	640	930	40000	679	829	1300	300	2700	0.203	5.16	0.107	2.72	0.350	8.89	
S75	ZOV511RA900	X	X				510	675	940	40000	722	881	1350	300	2500	0.212	5.38	0.098	2.49	0.360	9.14	
S75	ZOV551RA960	X	X				550	700	960	40000	778	950	1500	300	1800	0.222	5.64	0.088	2.24	0.373	9.47	
S75	ZOV581RA1000	X	X				580	735	1000	40000	821	1002	1575	300	1700	0.234	5.94	0.076	1.93	0.382	9.70	
S75	ZOV621RA1040	X	X				620	800	1040	40000	877	1071	1670	300	1600	0.245	6.22	0.065	1.65	0.395	10	
S75	ZOV681RA1100	X	X				680	860	1100	40000	962	1175	1815	300	1500	0.262	6.65	0.048	1.22	0.414	10.5	
S75	ZOV751RA1200	X	X				750	970	1200	40000	1082	1300	2000	300	1300	0.286	7.26	0.024	0.61	0.460	11.7	
S75	ZOV881RA1300	X	X				880	1150	1300	40000	1245	1520	2290	300	1100	0.319	8.10	0.009	0.12	0.476	12.1	
S75	ZOV102RA1400	X	X				1000	1200	1400	40000	1414	1728	2550	300	1000	0.354	8.90	0.044	0.12	0.514	13.1	

NOTES:
A = UL1449 File E86730 - Transient Voltage Surge Suppression
B = UL1414 File E38785 - Across - The Line Applications
C = CSA C22.2 File LR33468

Insert (80) in blanks to indicate STRAIGHT tabs
or (77) to indicate FORMED FOOT
(i.e. S7580ZOV131RA310 or S7577ZOV131RA310)



Detailed Voltage vs. Current characteristic curves for each component are available from our engineering department.

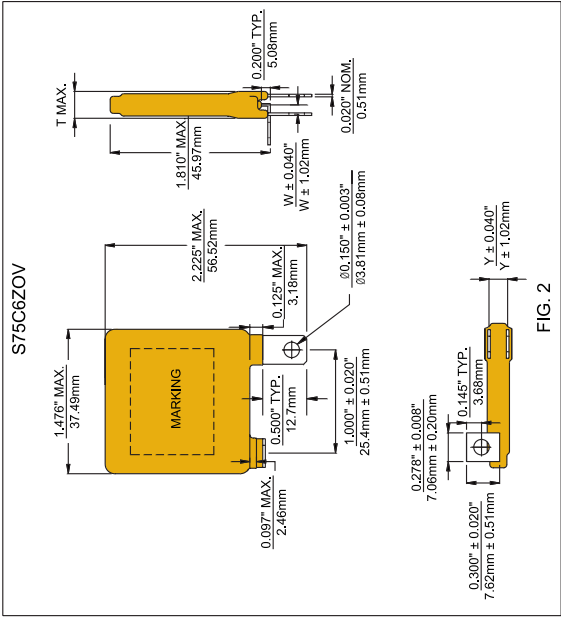
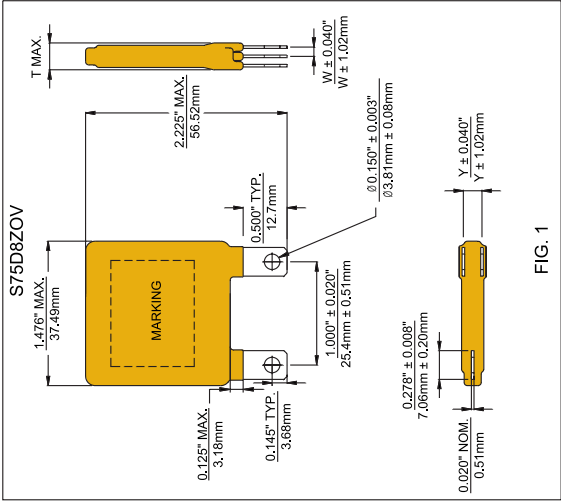


SPECIFICATIONS

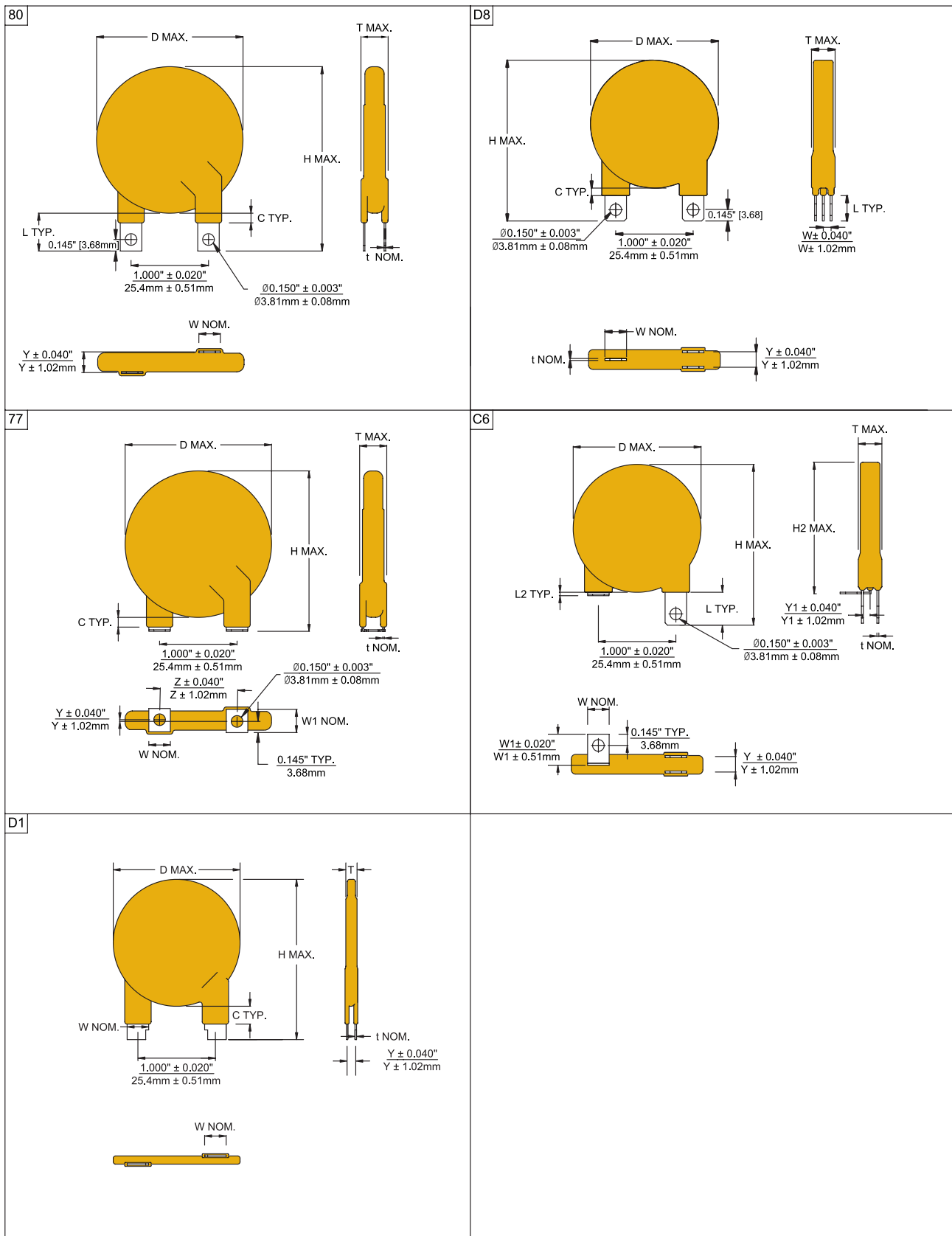
34mm Dual — Square Configuration																										
Maida Style Number		Recognitions To Safety Agency Standards						Minimum Marking				Maximum Ratings														
												All measurements in reference to center lead for e														
												Continuous					Transient					Electric				
												Applied Voltage		Energy 10x1000 µsec		Peak Current 8x20 µsec # Pulses		Varistor Voltage @ 1mA DC		Typical Cap						
																				1 V rms						
A	B	C	D	E	F	(AC)	(DC)	(J)	(A)	(V)	Vmin	Vmax	(V)	(A)	(V)	MM	IN	MM	IN	MM						
S75	ZOV131RA310	X					130	175	310	40000	184	224	340	300	7900	0.162	4.11	0.162	4.11	0.304	7.72					
S75	ZOV141RA330	X					140	180	330	40000	198	242	360	300	7183	0.170	4.32	0.170	4.32	0.312	7.92					
S75	ZOV151RA360	X	X				150	200	360	40000	212	259	395	300	6600	0.176	4.47	0.176	4.47	0.321	8.15					
S75	ZOV181RA390	X	X				180	230	390	40000	255	311	470	300	5600	0.190	4.83	0.190	4.83	0.336	8.53					
S75	ZOV211RA430	X	X				210	270	430	40000	297	363	640	300	4800	0.208	5.28	0.208	5.28	0.354	8.99					
S75	ZOV231RA460	X	X				230	300	460	40000	326	397	595	300	4400	0.220	5.59	0.220	5.59	0.365	9.27					
S75	ZOV251RA490	X	X				250	330	490	40000	354	432	650	300	4100	0.230	5.84	0.230	5.84	0.378	9.60					
S75	ZOV271RA550	X	X				270	360	550	40000	382	466	710	300	3800	0.242	6.15	0.242	6.15	0.392	9.96					
S75	ZOV301RA600	X	X				300	390	600	40000	425	518	790	300	3400	0.260	6.60	0.260	6.60	0.410	10.41					
S75	ZOV321RA640	X					320	420	640	40000	453	553	850	300	3200	0.270	6.86	0.270	6.86	0.419	10.64					
S75	ZOV361RA710	X	X				360	470	710	40000	522	638	950	300	2700	0.300	7.62	0.300	7.62	0.435	11.05					
S75	ZOV391RA800	X					390	505	800	40000	552	674	1025	300	2582	0.310	7.87	0.310	7.87	0.448	11.38					
S75	ZOV421RA910	X					420	560	910	40000	594	725	1120	300	2400	0.328	8.33	0.328	8.33	0.465	11.81					
S75	ZOV461RA780	X					460	615	920	40000	651	795	1240	300	2186	0.350	8.89	0.350	8.89	0.489	12.42					
S75	ZOV481RA820	X					480	640	930	40000	679	829	1300	300	2100	0.360	9.14	0.360	9.14	0.500	12.70					
S75	ZOV511RA900	X					510	675	940	40000	722	881	1390	300	2000	0.378	9.60	0.378	9.60	0.517	13.13					
S75	ZOV551RA960	X					550	700	960	40000	778	950	1500	300	1800	0.400	10.16	0.400	10.16	0.545	13.84					
S75	ZOV581RA1000	X					580	735	1000	40000	821	1001	1575	300	1700	0.418	10.62	0.418	10.62	0.562	14.27					
S75	ZOV621RA1040	X					620	800	1040	40000	877	1071	1670	300	1600	0.440	11.18	0.440	11.18	0.582	14.78					
S75	ZOV681RA1100	X					680	860	1100	40000	962	1175	1815	300	1500	0.474	12.04	0.474	12.04	0.617	15.67					
S75	ZOV751RA1200	X					750	970	1200	40000	1062	1300	2000	300	1300	0.522	13.26	0.522	13.26	0.720	18.29					

NOTES:
A = UL1449 File E86730 - Transient Voltage Surge Suppression
B = UL1414 File E38785 - Across - The Line Applications
C = CSA C22.2 File LR33468

Insert (D8) in blanks to indicate STRAIGHT tabs
or (C6) to indicate FORMED FOOT
(i.e., S75D8ZOV131RA310 or S75C6ZOV131RA310)



Detailed Voltage vs. Current characteristic curves for each component are available from our engineering department.



TABBED-LEAD CODES

