

Part Number	Agency Mark	Device Marking	Maximum Applied Voltage		Varistor Voltage @1mA DC V	Energy 2mS J	Maximum Clamping Voltage 8/20 μS		Peak Current A	Typical Capacitance pF	Dimensions(mm) ±1mm			
			AC RMS	DC			V	A			D-Max	T	W	d
High Energy Series - Radial Lead MOVs													Figure 64	
Z130LA2H		1302H	130	170	205 (185-225)	17.0	340	10	1750	250	9.0	4.7	5.0	0.6
Z130LA5H		1305H	130	170	205 (185-225)	35.0	340	25	3500	570	14.0	5.1	7.5	0.8
Z130LA10AH		130H10A	130	170	205 (185-225)	69.0	340	50	6000	1150	17.5	5.1	7.5	0.8
Z130LA20AH		130H20A	130	170	205 (185-225)	140.0	340	100	10000	2300	25.0	5.5	10.0	1.0
Z130LA20BH		130H20B	130	170	200 (185-210)	140.0	325	100	10000	2300	25.0	5.5	10.0	1.0
Z140LA2H		1402H	140	180	220 (198-242)	19.0	360	10	1750	250	9.0	4.7	5.0	0.6
Z140LA5H		1405H	140	180	220 (198-242)	39.0	360	25	3500	560	14.0	5.1	7.5	0.8
Z140LA10AH		140H10A	140	180	220 (198-242)	77.0	360	50	6000	1100	17.5	5.1	7.5	0.8
Z140LA20AH		140H20A	140	180	220 (198-242)	155.0	360	100	10000	2200	25.0	5.5	10.0	1.0
Z140LA20BH		140H20B	140	180	220 (198-230)	155.0	345	100	10000	2200	25.0	5.5	10.0	1.0
Z150LA2H		1502H	150	200	240 (216-264)	21.0	395	10	1750	240	9.0	4.7	5.0	0.6
Z150LA5H		1505H	150	200	240 (216-264)	42.0	395	25	3500	550	14.0	5.1	7.5	0.8
Z150LA10AH		150H10A	150	200	240 (216-264)	83.0	395	50	6000	1050	17.5	5.1	7.5	0.8
Z150LA20AH		150H20A	150	200	240 (216-264)	168.0	395	100	10000	2200	25.0	5.5	10.0	1.0
Z150LA20BH		150H20B	150	200	240 (216-252)	168.0	375	100	10000	2200	25.0	5.5	10.0	1.0
Z175LA2H		1752H	175	225	270 (247-303)	24.0	455	10	1750	220	9.0	4.8	5.0	0.6
Z175LA5H		1755H	175	225	270 (247-303)	49.0	455	25	3500	530	14.0	5.2	7.5	0.8
Z175LA10AH		175H10A	175	225	270 (247-303)	94.0	455	50	6000	1000	17.5	5.2	7.5	0.8
Z175LA20AH		175H20A	175	225	270 (247-303)	190.0	455	100	10000	2100	25.0	5.6	10.0	1.0
Z175LA20BH		175H20B	175	225	270 (247-284)	190.0	435	100	10000	2100	25.0	5.6	10.0	1.0
Z200LA2H		2002H	195	250	300 (270-330)	26.0	500	10	1750	190	9.0	4.8	5.0	0.6
Z200LA5H		2005H	195	250	300 (270-330)	54.0	500	25	3500	500	14.0	5.2	7.5	0.8
Z200LA10AH		200H10A	195	250	300 (270-330)	103.0	500	50	6000	900	17.5	5.2	7.5	0.8
Z200LA20AH		200H20A	195	250	300 (270-330)	210.0	500	100	10000	1800	25.0	5.6	10.0	1.0
Z200LA20BH		200H20B	195	250	300 (270-315)	210.0	475	100	10000	1800	25.0	5.6	10.0	1.0
Z210LA4H		2104H	210	275	330 (297-363)	28.0	550	10	1750	170	9.0	4.9	5.0	0.6
Z210LA10H		210LH	210	275	330 (297-363)	58.0	550	25	3500	450	14.0	5.3	7.5	0.8
Z210LA20AH		210H20A	210	275	330 (297-363)	112.0	550	50	6000	850	17.5	5.3	7.5	0.8
Z210LA40AH		210H40A	210	275	330 (297-363)	228.0	550	100	10000	1750	25.0	5.7	10.0	1.0
Z210LA40BH		210H40B	210	275	330 (297-345)	228.0	525	100	10000	1750	25.0	5.7	10.0	1.0
Z230LA4H		2304H	230	300	360 (324-396)	32.0	595	10	1750	180	9.0	4.9	5.0	0.6
Z230LA10H		230H	230	300	360 (324-396)	65.0	595	25	3500	450	14.0	5.3	7.5	0.8
Z230LA20AH		230H20A	230	300	360 (324-386)	125.0	595	50	6000	850	17.5	5.3	7.5	0.8
Z230LA40AH		230H40A	230	300	360 (324-396)	255.0	595	100	10000	1700	25.0	5.7	10.0	1.0
Z230LA40BH		230H40B	230	300	360 (324-380)	255.0	565	100	10000	1700	25.0	5.7	10.0	1.0
Z250LA4H		2504H	250	320	390 (351-429)	35.0	650	10	1750	160	9.0	5.1	5.0	0.6
Z250LA10H		250H	250	320	390 (351-429)	70.0	650	25	3500	430	14.0	5.5	7.5	0.8
Z250LA20AH		250H20A	250	320	390 (351-429)	135.0	650	50	6000	800	17.5	5.5	7.5	0.8
Z250LA40AH		250H40A	250	320	390 (351-429)	275.0	650	100	10000	1400	25.0	5.9	10.0	1.0
Z250LA40BH		250H40B	250	320	390 (351-410)	275.0	620	100	10000	1400	25.0	5.9	10.0	1.0
Z275LA4H		2754H	275	350	430 (387-473)	40.0	710	10	1750	150	9.0	5.3	5.0	0.6
Z275LA10H		275H	275	350	430 (387-473)	80.0	710	25	3500	400	14.0	5.7	7.5	0.8
Z275LA20AH		275H20A	275	350	430 (387-473)	150.0	710	50	6000	650	17.5	5.7	7.5	0.8
Z275LA40AH		275H40A	275	350	430 (387-473)	305.0	710	100	10000	1350	25.0	6.1	10.0	1.0
Z275LA40BH		275H40B	275	350	430 (387-450)	305.0	675	100	10000	1350	25.0	6.1	10.0	1.0
Z300LA4H		3004H	300	385	470 (423-517)	42.0	775	10	1750	130	9.0	5.5	5.0	0.6
Z300LA10H		300H	300	385	470 (423-517)	85.0	775	25	3500	300	14.0	5.9	7.5	0.8
Z300LA20AH		300H20A	300	385	470 (423-517)	172.0	775	50	6000	550	17.5	5.9	7.5	0.8
Z300LA40AH		300H40A	300	385	470 (423-517)	350.0	775	100	10000	1200	25.0	6.3	10.0	1.0
Z300LA40BH		300H40B	300	385	470 (423-494)	350.0	735	100	10000	1200	25.0	6.3	10.0	1.0

Radial leaded MOVs having the Underwriters Laboratory Recognized Component Mark, conform to UL 1414, UL1449 edition 3, as listed on DTI UL file number E319342. Maximum Power Dissipation: 5 mm-0.1 watt; 7 mm-0.25 watt; 10 mm-0.4 watt; 14 mm-0.6 watt, 20 mm-1 watt.

Typical response time is less than 15 nanoseconds.

See page 57 for explanation of UL Surge Suppression Device Type Designations.

All devices listed are RoHS compliant.



Part Number	Agency Mark	Device Marking	Maximum Applied Voltage		Varistor Voltage @1mA DC V	Energy 2mS J	Maximum Clamping Voltage 8/20 μS		Peak Current A	Typical Capacitance pF	Dimensions(mm) ±1mm				
			AC _{RMS}	DC			V	A			D-Max	T	W	d	
High Energy Series - Radial Lead MOVs												Figure 64			
Z320LA4H		3204H	320	410	510 (459-561)	32	845	10	1750	120	9.0	5.7	5.0	0.6	
Z320LA10H		320H	320	410	510 (459-561)	67	845	25	3500	260	14.0	6.1	7.5	0.8	
Z320LA20AH		320H20A	320	410	510 (459-561)	136	845	50	6000	450	17.5	6.1	7.5	0.8	
Z320LA40AH		320H40A	320	410	510 (459-561)	273	845	100	10000	1050	25.0	6.5	10.0	1.0	
Z320LA40BH		320H40B	320	410	510 (459-535)	273	805	100	10000	1050	25.0	6.5	10.0	1.0	
Z350LA4H		3504H	350	460	560 (504-616)	32	915	10	1750	120	9.0	6.0	5.0	0.6	
Z350LA10H		350H	350	460	560 (504-616)	67	915	25	3500	200	14.0	6.0	7.5	0.8	
Z350LA20AH		350H20A	350	460	560 (504-616)	136	915	50	6000	400	14.0	6.4	7.5	0.8	
Z350LA40AH		350H40A	350	460	560 (504-616)	273	915	100	10000	850	25.0	6.8	10.0	1.0	
Z350LA40BH		350H40B	350	460	560 (504-590)	273	870	100	10000	850	25.0	6.8	10.0	1.0	
Z385LA4H		3854H	385	505	620 (558-682)	32	1025	10	1750	120	9.0	6.3	5.0	0.6	
Z385LA10H		385H	385	505	620 (558-682)	67	1025	25	3500	170	14.0	6.7	7.5	0.8	
Z385LA20AH		385H20A	385	505	620 (558-682)	136	1025	50	6000	350	17.5	6.7	7.5	0.8	
Z385LA40AH		385H40A	385	505	620 (558-682)	273	1025	100	10000	570	25.0	7.1	10.0	1.0	
Z385LA40BH		385H40B	385	505	620 (558-650)	273	975	100	10000	570	25.0	7.1	10.0	1.0	
Z420LA10H		420H	420	560	680 (612-748)	67	1120	25	3500	160	14.0	7.0	7.5	0.8	
Z420LA20AH		420H20A	420	560	680 (612-748)	136	1120	50	6000	350	17.5	7.0	7.5	0.8	
Z420LA40AH		420H40A	420	560	680 (612-748)	273	1120	100	10000	550	25.0	7.4	10.0	1.0	
Z420LA40BH		420H40B	420	560	680 (612-715)	273	1065	100	10000	550	25.0	7.4	10.0	1.0	
Z460LA10H		460H	460	615	750 (675-825)	70	1240	25	3500	150	14.0	7.4	7.5	0.8	
Z460LA20AH		460H20A	460	615	750 (675-825)	150	1240	50	6000	330	17.5	7.4	7.5	0.8	
Z460LA40AH		460H40A	460	615	750 (675-825)	300	1240	100	10000	530	25.0	7.8	10.0	1.0	
Z460LA40BH		460H40B	460	615	750 (675-790)	300	1180	100	10000	530	25.0	7.8	10.0	1.0	
Z480LA20H		480H	485	640	780 (702-858)	75	1290	25	3500	150	14.0	7.4	7.5	0.8	
Z480LA40AH		480H40A	485	640	780 (702-858)	160	1290	50	6000	330	17.5	7.4	7.5	0.8	
Z480LA80AH		480H80A	485	640	780 (702-858)	315	1290	100	10000	530	25.0	7.8	10.0	1.0	
Z480LA80BH		480H80B	485	640	780 (702-820)	315	1225	100	10000	530	25.0	7.8	10.0	1.0	
Z510LA20H		510H	510	670	820 (738-902)	80	1355	25	3500	150	14.0	7.8	7.5	0.8	
Z510LA40AH		510H40A	510	670	820 (738-902)	165	1355	50	6000	330	17.5	7.8	7.5	0.8	
Z510LA80AH		510H80A	510	670	820 (738-902)	325	1355	100	10000	530	25.0	8.2	10.0	1.0	
Z510LA80BH		510H80B	510	670	820 (738-860)	325	1290	100	10000	530	25.0	8.2	10.0	1.0	
Z550LA20H		550H	550	745	910 (819-1001)	90	1500	25	3500	140	14.0	8.2	7.5	0.8	
Z550LA40AH		550H40A	550	745	910 (819-1001)	180	1500	50	6000	300	17.5	8.2	7.5	0.8	
Z550LA80AH		550H80A	550	745	910 (819-1001)	360	1500	100	10000	480	25.0	8.6	10.0	1.0	
Z550LA80BH		550H80B	550	745	910 (819-955)	360	1425	100	10000	480	25.0	8.6	10.0	1.0	
Z600LA20H		625H	625	825	1000 (900-1100)	100	1650	25	3500	140	14.0	8.7	7.5	0.8	
Z600LA50AH		600H50A	625	825	1000 (900-1100)	200	1650	50	6000	300	17.5	8.7	7.5	0.8	
Z600LA100AH		600H100A	625	825	1000 (900-1100)	400	1650	100	10000	480	25.0	9.1	10.0	1.0	
Z600LA100BH		600H100B	625	825	1000 (900-1050)	400	1570	100	10000	480	25.0	9.1	10.0	1.0	
Z660LA20H		660H	680	895	1100 (990-1210)	110	1815	25	3500	130	14.0	9.2	7.5	0.8	
Z660LA50AH		660H50A	680	895	1100 (990-1210)	220	1815	50	6000	200	17.5	9.2	7.5	0.8	
Z660LA100AH		660H100A	680	895	1100 (990-1210)	440	1815	100	10000	400	25.0	9.6	10.0	1.0	
Z660LA100BH		660H100B	680	895	1100 (990-1155)	440	1725	100	10000	400	25.0	9.6	10.0	1.0	
Z1000LA20H		1000H	1000	1465	1800 (1620-1980)	183	2970	25	3500	70	14.0	9.2	7.5	0.8	
Z1000LA80AH		1000H80A	1000	1465	1800 (1620-1980)	360	2970	50	6000	150	17.5	13.9	7.5	0.8	
Z1000LA160AH		1000H160A	1000	1465	1800 (1620-1980)	720	2970	100	10000	250	25.0	14.3	10.0	1.0	
Z1000LA160BH		1000H160B	1000	1465	1800(1620-1890)	720	2820	100	1000	250	25.0	14.3	10.0	1.0	

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