



RADIAL LEAD METAL OXIDE VARISTORS - HIGH ENERGY SERIES

SUPPRESSION

CKE Part Number	Marking On Part	Max Applied Contin. Volts		Varistor Voltage @ 1 mA DC DC Volts	Energy 2ms Joules	Max. Clamping Voltage 8/20 μ s		Peak Current Amps	Typical Capacitance pF	Dimensions (mm) - Figure 64			
		AC _{RMS}	DC			Volts	Amps			D-Max	T-Max ± 1 mm	W	d
⚡ Z130LA2H	1302H	130	170	200 (185-225)	12.5	340	10	1750	250	9.0	4.7	5.0	0.6
⚡ Z130LA5H	1305H	130	170	200 (185-225)	25	340	25	3500	570	14.0	5.1	7.5	0.8
⚡ Z130LA10AH	130H10A	130	170	200 (185-225)	50	340	50	6000	1150	17.5	5.1	7.5	0.8
⚡ Z130LA20AH	130H20A	130	170	200 (185-225)	100	340	100	10000	2300	25.0	5.5	10.0	1.0
⚡ Z130LA20BH	130H20B	130	170	200 (185-210)	100	325	100	10000	2300	25.0	5.5	10.0	1.0
⚡ Z140LA2H	1402H	140	180	220 (198-242)	13.5	360	10	1750	250	9.0	4.7	5.0	0.6
⚡ Z140LA5H	1405H	140	180	220 (198-242)	27.5	360	25	3500	560	14.0	5.1	7.5	0.8
⚡ Z140LA10AH	140H10A	140	180	220 (198-242)	55	360	50	6000	1100	17.5	5.1	7.5	0.8
⚡ Z140LA20AH	140H20A	140	180	220 (198-242)	110	360	100	10000	2200	25.0	5.5	10.0	1.0
⚡ Z140LA20BH	140H20B	140	180	220 (198-230)	110	345	100	10000	2200	25.0	5.5	10.0	1.0
⚡ Z150LA2H	1502H	150	200	240 (216-264)	15	395	10	1750	240	9.0	4.7	5.0	0.6
⚡ Z150LA5H	1505H	150	200	240 (216-264)	30	395	25	3500	550	14.0	5.1	7.5	0.8
⚡ Z150LA10AH	150H10A	150	200	240 (216-264)	60	395	50	6000	1050	17.5	5.1	7.5	0.8
⚡ Z150LA20AH	150H20A	150	200	240 (216-264)	120	395	100	10000	2200	25.0	5.5	10.0	1.0
⚡ Z150LA20BH	150H20B	150	200	240 (216-252)	120	375	100	10000	2200	25.0	5.5	10.0	1.0
⚡ Z175LA2H	1752H	175	225	270 (247-303)	17	455	10	1750	220	9.0	4.8	5.0	0.6
⚡ Z175LA5H	1755H	175	225	270 (247-303)	35	455	25	3500	530	14.0	5.2	7.5	0.8
⚡ Z175LA10AH	175H10A	175	225	270 (247-303)	70	455	50	6000	1000	17.5	5.2	7.5	0.8
⚡ Z175LA20AH	175H20A	175	225	270 (247-303)	135	455	100	10000	2100	25.0	5.6	10.0	1.0
⚡ Z175LA20BH	175H20B	175	225	270 (247-284)	135	435	100	10000	2100	25.0	5.6	10.0	1.0
⚡ Z200LA2H	2002H	195	250	300 (270-330)	18.5	500	10	1750	190	9.0	4.8	5.0	0.6
⚡ Z200LA5H	2005H	195	250	300 (270-330)	38	500	25	3500	500	14.0	5.2	7.5	0.8
⚡ Z200LA10AH	200H10A	195	250	300 (270-330)	78	500	50	6000	900	17.5	5.2	7.5	0.8
⚡ Z200LA20AH	200H20A	195	250	300 (270-330)	148	500	100	10000	1800	25.0	5.6	10.0	1.0
⚡ Z200LA20BH	200H20B	195	250	300 (270-315)	148	475	100	10000	1800	25.0	5.6	10.0	1.0
⚡ Z210LA4H	2104H	210	275	330 (297-363)	20	550	10	1750	170	9.0	4.9	5.0	0.6
⚡ Z210LA10H	210LH	210	275	330 (297-363)	42	550	25	3500	450	14.0	5.3	7.5	0.8
⚡ Z210LA20AH	210H20A	210	275	330 (297-363)	80	550	50	6000	850	17.5	5.3	7.5	0.8
⚡ Z210LA40AH	210H40A	210	275	330 (297-363)	160	550	100	10000	1750	25.0	5.7	10.0	1.0
⚡ Z210LA40BH	210H40B	210	275	330 (297-345)	160	525	100	10000	1750	25.0	5.7	10.0	1.0
⚡ Z230LA4H	2304H	230	300	360 (324-396)	23	595	10	1750	180	9.0	4.9	5.0	0.6
⚡ Z230LA10H	230H	230	300	360 (324-396)	45	595	25	3500	450	14.0	5.3	7.5	0.8
⚡ Z230LA20AH	230H20A	230	300	360 (324-386)	90	595	50	6000	850	17.5	5.3	7.5	0.8
⚡ Z230LA40AH	230H40A	230	300	360 (324-396)	180	595	100	10000	1700	25.0	5.7	10.0	1.0
⚡ Z230LA40BH	230H40B	230	300	360 (324-380)	180	565	100	10000	1700	25.0	5.7	10.0	1.0
⚡ Z250LA4H	2504H	250	320	390 (351-429)	25	650	10	1750	160	9.0	5.1	5.0	0.6
⚡ Z250LA10H	250H	250	320	390 (351-429)	50	650	25	3500	430	14.0	5.5	7.5	0.8
⚡ Z250LA20AH	250H20A	250	320	390 (351-429)	100	650	50	6000	800	17.5	5.5	7.5	0.8
⚡ Z250LA40AH	250H40A	250	320	390 (351-429)	195	650	100	10000	1400	25.0	5.9	10.0	1.0
⚡ Z250LA40BH	250H40B	250	320	390 (351-410)	195	620	100	10000	1400	25.0	5.9	10.0	1.0
⚡ Z275LA4H	2754H	275	350	430 (387-473)	27.5	710	10	1750	150	9.0	5.3	5.0	0.6
⚡ Z275LA10H	275H	275	350	430 (387-473)	55	710	25	3500	400	14.0	5.7	7.5	0.8
⚡ Z275LA20AH	275H20A	275	350	430 (387-473)	110	710	50	6000	650	17.5	5.7	7.5	0.8
⚡ Z275LA40AH	275H40A	275	350	430 (387-473)	215	710	100	10000	1350	25.0	6.1	10.0	1.0
⚡ Z275LA40BH	275H40B	275	350	430 (387-450)	215	675	100	10000	1350	25.0	6.1	10.0	1.0
⚡ Z300LA4H	3004H	300	385	470 (423-517)	30	775	10	1750	130	9.0	5.5	5.0	0.6
⚡ Z300LA10H	300H	300	385	470 (423-517)	60	775	25	3500	300	14.0	5.9	7.5	0.8
⚡ Z300LA20AH	300H20A	300	385	470 (423-517)	125	775	50	6000	550	17.5	5.9	7.5	0.8
⚡ Z300LA40AH	300H40A	300	385	470 (423-517)	250	775	100	10000	1200	25.0	6.3	10.0	1.0
⚡ Z300LA40BH	300H40B	300	385	470 (423-494)	250	735	100	10000	1200	25.0	6.3	10.0	1.0

All radial leaded MOVs are available on tape and reel and/or crimp lead and/or trim lead. Consult factory for details

Radial leaded MOVs having the Underwriters Laboratory Recognized Component Mark, ⚡, conform to UL 1414, UL1449 second edition and CSA class 222101. CKE's UL recognized parts are listed on file #E90510 Maximum Power Dissipation: 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. All parts RoHS compliant



CKE Part Number	Marking On Part	Max Applied Contin. Volts		Varistor Voltage @ 1 mA DC	Energy 2ms	Max. Clamping Voltage 8/20 μ s		Peak Current	Typical Capacitance	Dimensions (mm) - Figure 64			
		AC _{RMS}	DC	DC Volts	Joules	Volts	Amps	Amps	pF	D-Max	\pm 1 mm T-Max	W	d
⚡ 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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