



Z33M & Z60 Series PA Series

Type	Voltage Ratings				Energy Joules	Maximum Operating Conditions			Typical Capacitance pf	Figure
	VAC Volts RMS	VDC Volts	Varistor Peak Voltage			Max. Clamping Voltage		Peak Current (8x20 μ s) Amps		
			Min.	Max.		Volts	Amp.			
			Volts	Volts						
Z33M Series										
Z33M201	130	170	180	220	210	340	200	25000	6600	62
Z33M241	150	200	216	264	240	395	200	25000	6000	62
Z33M271	175	225	243	297	255	455	200	25000	5010	62
Z33M361	230	300	324	396	325	595	200	25000	4200	62
Z33M391	250	320	351	429	350	650	200	25000	3600	62
Z33M431	275	350	387	473	400	710	200	25000	3300	62
Z33M471	300	385	423	517	405	775	200	25000	3100	62
Z33M511	320	415	459	561	415	845	200	25000	3000	62
Z33M621	385	505	558	682	425	1025	200	25000	2640	62
Z33M681	420	560	612	748	450	1120	200	25000	2520	62
Z33M751	460	615	675	825	500	1240	200	25000	2300	62
Z33M781	485	640	702	858	520	1290	200	25000	2300	62
Z33M821	510	670	738	902	545	1355	200	25000	2160	62
Z33M911	550	745	819	1001	600	1500	200	25000	2100	62
Z33M102	625	825	900	1100	655	1650	200	25000	2040	62
Z33M112	680	895	990	1210	725	1815	200	25000	1850	62
Z60 Series										
Z60M431	275	369	389	473	950	680	200	50000	9000	66
Z60M511	320	420	462	539	1100	760	200	50000	7500	66
Z60M681	420	560	610	748	1500	1060	200	70000	6000	66
Z60M751	480	640	670	825	1600	1160	200	70000	5500	66
Z60M821	510	675	735	910	1800	1300	200	70000	5000	66
Z60M911	575	730	805	1000	2100	1420	200	70000	4500	66
Z60M102	660	850	940	1160	2300	1640	200	70000	4000	66
Z60M122	750	970	1080	1320	2600	1880	200	70000	3500	66
Z60M182	1100	1400	1620	2060	3800	2940	200	70000	2200	71
Z60M222	1400	1750	2020	2550	5000	3600	200	70000	1800	71
Z60M272	1700	2150	2500	3030	6000	4300	200	70000	1500	71
Z60M332	2000	2500	2970	3630	7500	5200	200	70000	1200	71
Z60M392	2400	3000	3510	4290	8600	6200	200	70000	1000	71
Z60M472	2800	3500	4230	5170	10000	7400	200	70000	800	71
PA Series										
Z130PA20A			184	243		360	100			
Z130PA20C	130	175	184	220	100	325	100	6500	2400	63
Z150PA20A			212	284		420	100			63
Z150PA20C	150	200	212	243	100	360	100	6500	2000	63
Z200PA20A	200	260	297	363	110	550	100	6500	1800	63
Z250PA40A			354	453		675	100			63
Z250PA40C	250	330	354	413	130	620	100	6500	1400	63
Z275PA40A			389	494		740	100			63
Z275PA40C	275	369	389	453	140	680	100	6500	1200	63
Z320PA40A			462	565		850	100			63
Z320PA40C	320	420	462	539	160	800	100	6500	1100	63
Z420PA40A			610	790		1160	100			63
Z420PA40C	420	560	610	690	160	1050	100	6500	1000	63
Z480PA80A			670	860		1280	100			63
Z480PA80C	480	640	670	790	180	1160	100	6500	1000	63
Z510PA80A			735	963		1410	100			63
Z510PA80C	510	675	735	860	190	1280	100	6500	1000	63
Z550PA80A			775	1000		1500	100			63
Z550PA80C	550	700	775	960	200	1400	100	6500	900	63
Z575PA80A			805	1050		1560	100			63
Z575PA80C	575	730	805	960	220	1410	100	6500	900	63
Z625PA80A	625	825	900	1100	230	1650	100	6500	800	63
Z660PA100A			940	1210		1820	100			63
Z660PA100C	660	850	940	1100	250	1650	100	6500	800	63
Z1000PA100A			1460	1880		2800	100			63
Z1000PA100C	1000	1350	1460	1720	380	2580	100	6500	600	63

Maximum Power Dissipation: Z33M-1.5 watt; Z60M-2.5 watt; PA-1.0 watt
 Typical response time is less than 15 nanoseconds.