

# Z25M, Z33M Series

## Specifications

Part No.	Varistor voltage $V_{1mA}(V)$		Maximum allowable voltage		Clamping voltage	Rated power	Maximum energy (2ms)	Withstanding surge current (8/20 $\mu$ s)	Capacitance (TYP) (1kHz)		
			AC	DC							
	Min	Max	$V_{rms}$	V	V	W	J	2 Times (A)	pF		
Z25M221S	220(187 ~ 253 )		120	165	380 at 150A	1.0	125	10000	3300		
Z25M271S	270(229.5 ~ 310.5)		150	210	465		155		2200		
Z25M331S	330(280.5 ~ 379.5)		175	245	570		185		1900		
Z25M391S	390(331.5 ~ 448.5)		210	295	675		215		1700		
Z25M441S	440(374 ~ 506 )		240	335	760		225		1500		
Z25M471S	470(399.5 ~ 540.5)		250	350	810		235		1500		
Z25M561S	560(476 ~ 644 )		300	420	970		260		1400		
Z25M681S	680(578 ~ 782 )		365	510	1175		280		1250		
Z25M821S	820(697 ~ 943 )		440	615	1415		330		800		
Z25M102S	1000(850 ~ 1,150)		520	730	1725		375		500		
Z33M221S	220(187 ~ 253 )		120	165	380 at 200A		1.2		200	20000	5500
Z33M271S	270(229.5 ~ 310.5)		150	210	465				255		4200
Z33M331S	330(280.5 ~ 379.5)		175	245	570				310		3700
Z33M391S	390(331.5 ~ 448.5)		210	295	675				360		3200
Z33M441S	440(374 ~ 506 )		240	335	760	370		2800			
Z33M471S	470(399.5 ~ 540.5)		250	350	810	385		2600			
Z33M561S	560(476 ~ 644 )		300	420	970	425		2200			
Z33M681S	680(578 ~ 782 )		365	510	1175	460		1800			
Z33M821S	820(697 ~ 943 )		440	615	1415	580		1500			
Z33M102S	1000(850 ~ 1150)		520	730	1725	620		1000			

1. Operating temperature range: -40 to 85°C
2. Storage temperature range: -40 to 125°C

## Dimensions

