

Low Voltage, Automotive Metal Oxide Varistor

ZM Series

Electrical Characteristics

ZM SERIES RADIAL LEAD Part #	MAXIMUM RATINGS @ 85°C					CHARACTERISTICS @ 25°C					
	Continuous		Transient			Varistor Voltage @ Test Current *1mA		Max. Clamping Voltage @ Test Current (8x20µs)		Typical Capacitance @ 1kHz	Non-Continuous Voltage (5 min. max)
	V _{AC} (RMS)	V _{DC}	Energy (*1)	Rated Power	Peak Current (1 pulse) 8x20µs	Volts	Tol ±	Volts	I _p (A)	pF	V _{DC}
0008ZM05D 0008ZM07D 0008ZM10D	4	5.5	0.2	0.01	50	8	25%	24	1	2300	—
0.4			0.02	125	22			2.5	5000		
0.8			0.05	250	22			5	14000		
0012ZM05D 0012ZM07D 0012ZM10D	6	8	0.3	0.01	50	12	25%	32	1	1900	—
0.6			0.02	125	30			2.5	3800		
1.2			0.05	250	30			5	10000		
0022ZM05D 0022ZM07D 0022ZM10D 0022ZM14D 0022ZM20D	12	16	2.5	0.01	100	22	10%	48	1	1250	24
5			0.02	250	43			2.5	2750		
10			0.05	500	43			5	5700		
20			0.10	1000	43			10	11000		
40			0.20	2000	43			20	23000		
0027ZM05D 0027ZM07D 0027ZM10D 0027ZM14D 0027ZM20D	15	19	2.5	0.01	100	27	10%	60	1	1100	29
5			0.02	250	53			2.5	2250		
10			0.05	500	53			5	5100		
20			0.10	1000	53			10	10000		
40			0.20	2000	53			20	19500		
0033ZM05D 0033ZM07D 0033ZM10D 0033ZM14D 0033ZM20D	18	24	2.5	0.01	100	33	10%	73	1	950	36
5			0.02	250	65			2.5	2000		
10			0.05	500	65			5	4500		
20			0.10	1000	65			10	9500		
40			0.20	2000	65			20	16000		
0039ZM05D 0039ZM07D 0039ZM10D 0039ZM14D 0039ZM20D	22	28	2.5	0.01	100	39	10%	86	1	850	42
5			0.02	250	77			2.5	1700		
10			0.05	500	77			5	4000		
20			0.10	1000	77			10	9000		
40			0.20	2000	77			20	13500		
0047ZM05D 0047ZM07D 0047ZM10D 0047ZM14D 0047ZM20D	26	34	2.5	0.01	100	47	10%	104	1	750	50
5			0.02	250	93			2.5	1500		
10			0.05	500	93			5	3700		
20			0.10	1000	93			10	8600		
40			0.20	2000	93			20	11000		

*Varistor Voltage @ Test Current 1mA V_{DC}, Except 05D @ Test Current 0.1mA V_{DC}.

*1: Energy 0008 ~ 0012ZM @ 2ms square
0022 ~ 0047ZM @ 20ms square



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