

Low Voltage, Radial Lead Metal Oxide Varistor

ZR Series

Electrical Characteristics

ZR SERIES RADIAL LEAD	MAXIMUM RATINGS @ 85°C					CHARACTERISTICS @ 25°C					SAFETY APPROVALS				
	Continuous		Transient			Varistor Voltage @ Test Current *1mA		Max. Clamping Voltage @ Test Current (8x20µs)		Typical Cap.	UL 1414	UL 1449	CSA C22.2 No.1		
	V _{AC} (RMS)	V _{DC}	Energy (2ms)	Rated Power	Peak Current (1 pulse) 8x20µs	Volts	Tol ±	Volts	I _p (A)	pF					
Part #	Volts	Volts	Joules	Watts	Amps	Volts	Tol ±	Volts	I _p (A)	pF					
0018ZR05D	10	13	0.4	0.01	100	18	20%	43	1	800		•			
0018ZR07D			0.8	0.02	250			39	2.5	1350				•	
0018ZR10D			1.6	0.05	500			39	5	3800					•
0018ZR14D			3.5	0.10	1000			39	10	7000					
0022ZR05D	13	17	0.5	0.01	100	22	15%	51	1	720		•			
0022ZR07D			1	0.02	250			46	2.5	1250				•	
0022ZR10D			2	0.05	500			46	5	3600					•
0022ZR14D			4	0.10	1000			46	10	6500					
0024ZR05D	14	18	0.5	0.01	100	24	15%	55	1	700		•			
0024ZR07D			1.2	0.02	250			50	2.5	1200				•	
0024ZR10D			2	0.05	500			50	5	3500					•
0024ZR14D			4	0.10	1000			50	10	6200					
0027ZR05D	17	22	0.6	0.01	100	27	15%	60	1	640		•			
0027ZR07D			1.3	0.02	250			53	2.5	1100				•	
0027ZR10D			2.5	0.05	500			53	5	3300					•
0027ZR14D			5	0.10	1000			53	10	5800					
0033ZR05D	20	26	0.7	0.01	100	33	15%	73	1	560		•			
0033ZR07D			1.5	0.02	250			65	2.5	990				•	
0033ZR10D			3	0.05	500			65	5	3000					•
0033ZR14D			6	0.10	1000			65	10	5200					
0039ZR05D	25	31	0.8	0.01	100	39	15%	86	1	500		•			
0039ZR07D			1.7	0.02	250			77	2.5	890				•	
0039ZR10D			3.5	0.05	500			77	5	2700					•
0039ZR14D			7	0.10	1000			77	10	4700					
0047ZR05D	30	38	1.1	0.01	100	47	15%	104	1	460		•			
0047ZR07D			2.3	0.02	250			93	2.5	800				•	
0047ZR10D			4.5	0.05	500			93	5	2300					•
0047ZR14D			8.5	0.10	1000			93	10	4200					
0056ZR05D	35	45	1.3	0.01	100	56	10%	123	1	400		•			
0056ZR07D			2.7	0.02	250			110	2.5	720				•	
0056ZR10D			5.5	0.05	500			110	5	2050					•
0056ZR14D			10	0.10	1000			110	10	3700					
0068ZR05D	40	56	1.6	0.01	100	68	15%	150	1	350		•			
0068ZR07D			3.2	0.02	250			135	2.5	620				•	
0068ZR10D			6.5	0.05	500			135	5	1750					•
0068ZR14D			13	0.10	1000			135	10	3100					
0082ZR05D	50	65	2	0.10	400	82	15%	160	5	290		•			
0082ZR07D			4	0.25	1200			150	10	520				•	
0082ZR10D			9	0.4	2500			150	25	1400					•
0082ZR14D			14	0.6	4500			150	50	2600					
0100ZR05D	60	85	2	0.10	400	100	15%	190	5	230		•			
0100ZR07D			6	0.25	1200			175	10	410				•	
0100ZR10D			13	0.4	2500			175	25	1200					•
0100ZR14D			19	0.6	4500			175	50	1900					

*Varistor Voltage @ Test Current 1mA V_{DC}, Except NR & ZR Series Size 5D @ Test Current 0.1mA V_{DC}



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Dimensions & Markings

ZR & NR Series

Dimensions (mm)

ZR Series Part #	D	H	T	S	d	e	Marking Style*
	max	max	max	nom	nom	nom	
0018ZR05D	7.0	11.0	4.5	5.0	0.6	1.1	C
0022ZR05D						1.3	
0024ZR05D						1.3	
0027ZR05D			1.4				
0033ZR05D			5.0			1.6	
0039ZR05D						1.8	
0047ZR05D						2.0	
0056ZR05D			5.0			1.5	
0068ZR05D			1.7				
0082ZR05D			5.5			2.0	
0100ZR05D	2.2						
0018ZR07D	8.5	12.5	4.5	5.0	0.6	1.1	B
0022ZR07D						1.3	
0024ZR07D						1.3	
0027ZR07D			1.4				
0033ZR07D			5.0			1.6	
0039ZR07D						1.8	
0047ZR07D						2.0	
0056ZR07D			5.0			1.5	
0068ZR07D			1.7				
0082ZR07D			5.5			2.0	
0100ZR07D	2.2						
0018ZR10D	12.5	16.0	5.0	7.5	0.8	1.3	A
0022ZR10D						1.5	
0024ZR10D						1.5	
0027ZR10D			1.6				
0033ZR10D			5.5			1.8	
0039ZR10D						2.0	
0047ZR10D						2.2	
0056ZR10D			1.8				
0068ZR10D			5.5			1.9	
0082ZR10D			6.0			2.2	
0100ZR10D	2.4						
0018ZR14D	16.5	20.0	5.0	7.5	0.8	1.3	A
0022ZR14D						1.5	
0024ZR14D						1.5	
0027ZR14D			1.6				
0033ZR14D			5.5			1.8	
0039ZR14D						2.0	
0047ZR14D						2.2	
0056ZR14D			5.5			1.8	
0068ZR14D			1.9				
0082ZR14D			6.0			2.2	
0100ZR14D	2.4						

NR Series Part #	D	H	T	S	d	e	Marking Style*
	max	max	max	nom	nom	nom	
0117NR05D	7.0	11.0	4.5	5.0	0.6	1.3	C
0120NR05D			5.0			1.4	
0150NR05D			1.5				
0183NR05D			1.6				
0200NR05D			1.6				
0216NR05D			1.7				
0220NR05D			1.7				
0240NR05D			1.8				
0250NR05D			1.9				
0270NR05D			5.5			2.0	
0283NR05D	2.0						
0330NR05D	7.5	11.5	6.0	5.0	0.6	2.3	B
0350NR05D						2.4	
0360NR05D						2.4	
0383NR05D			2.5				
0390NR05D			2.6				
0416NR05D			2.7				
0430NR05D			2.8				
0450NR05D			6.5			2.8	
0470NR05D						3.0	
0500NR05D						3.1	
0550NR05D	7.0	3.3					
0117NR07D	8.5	12.0	4.5	5.0	0.6	1.3	B
0120NR07D			5.0			1.4	
0150NR07D			1.5				
0183NR07D			1.6				
0200NR07D			1.6				
0216NR07D			1.7				
0220NR07D			1.7				
0240NR07D			1.8				
0250NR07D			1.9				
0270NR07D			5.5			2.0	
0283NR07D	2.0						
0330NR07D	9.0	12.5	6.0	5.0	0.6	2.3	A
0350NR07D						2.4	
0360NR07D						2.4	
0383NR07D			2.5				
0390NR07D			2.6				
0416NR07D			2.7				
0430NR07D			2.8				
0450NR07D			6.5			2.8	
0470NR07D						3.0	
0500NR07D						3.1	
0550NR07D	7.0	3.3					

