

MNR Varistors

Metal Oxide Type



Varistors are voltage-dependent, non-linear resistors which have symmetrical, sharp, breakdown characteristics similar to back-to-back Zener diodes. They are designed for transient suppression in electrical circuits. Transients can result from the sudden release of previously stored energy (EMP), or from extraneous sources beyond the control of the circuit designer, such as lightning surges.

Features

- High transient current capability – up to 6500A.
- Fast response time – less than 35ns.
- Excellent voltage clamping characteristics.
- Very low temperature coefficient.
- Low standby current.
- Compact and light weight.
- High energy capability.
- High voltage - dependent index (N)
- Very low leakage current.
- Low capacitance.
- Low overshoot characteristics.
- Low leakage factor.
- Epoxy coating for maximum protection from heat, humidity, shock, and vibration.
- UL recognized, CSA certified.

ZR Series

Radial Lead

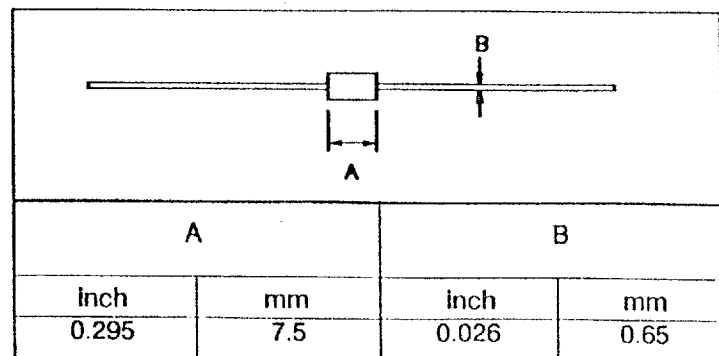
Part Number	@85°C Steady State AC		Max. Clamping Voltage at Test Current 8 x 20 μs		Energy
	Vrms	Vdc	Volts	Amps	10x1000μs Joules
	Volts	Volts	Volts	Amps	Joules
0018ZR05D	10	13	43	1.0	0.4
0018ZR07D	10	13	39	2.5	0.8
0018ZR10D	10	13	39	5.0	1.6
0018ZR14D	10	13	39	10.0	3.5
0022ZR05D	13	17	51	1.0	0.5
0022ZR07D	13	17	46	2.5	1.0
0022ZR10D	13	17	46	5.0	2.0
0022ZR14D	13	17	46	10.0	4.0
0024ZR05D	14	18	55	1.0	0.5
0024ZR07D	14	18	50	2.5	1.2
0024ZR10D	14	18	50	5.0	2.0
0024ZR14D	14	18	50	10.0	4.0
0027ZR05D	17	22	60	1.0	0.6
0027ZR07D	17	22	53	2.5	1.3
0027ZR10D	17	22	53	5.0	2.5
0027ZR14D	17	22	53	10.0	5.0
0033ZR05D	20	26	73	1.0	0.7
0033ZR07D	20	26	65	2.5	1.5
0033ZR10D	20	26	65	5.0	3.0
0033ZR14D	20	26	65	10.0	6.0
0039ZR05D	25	31	86	1.0	0.8
0039ZR07D	25	31	77	2.5	1.7
0039ZR10D	25	31	77	5.0	3.5
0039ZR14D	25	31	77	10.0	7.0
0047ZR05D	30	38	104	1.0	1.1
0047ZR07D	30	38	93	2.5	2.3
0047ZR10D	30	38	93	5.0	4.5
0047ZR14D	30	38	93	10.0	8.5
0056ZR05D	35	45	123	1.0	1.3
0056ZR07D	35	45	110	2.5	2.7
0056ZR10D	35	45	110	5.0	5.5
0056ZR14D	35	45	110	10.0	10.0
0068ZR05D	40	56	150	1.0	1.6
0068ZR07D	40	56	135	2.5	3.2
0068ZR10D	40	56	135	5.0	6.5
0068ZR14D	40	56	135	10.0	13.0
0082ZR05D	50	65	160	5.0	2.0
0082ZR07D	50	65	150	10.0	4.0
0082ZR10D	50	65	150	25.0	9.0
0082ZR14D	50	65	150	50.0	14.0
0100ZR05D	60	85	190	5.0	2.0
0100ZR07D	60	85	175	10.0	6.0
0100ZR10D	60	85	175	25.0	13.0
0100ZR14D	60	85	175	50.0	19.0

NA Series

Axial Lead

Part Number	@85°C Steady State AC		Max. Clamping Voltage at Test Current 8 x 20 μs	Energy 10x1000μs Joules
	Vrms	Vdc		
	Volts	Volts	Volts	Joules
0027NA	17	22	55	0.13
0033NA	20	26	65	0.2
0039NA	25	31	77	0.2
0047NA	30	38	93	0.26
0056NA	35	45	105	0.26
0068NA	40	56	125	0.4
0082NA	50	65	150	0.5
0100NA	60	85	175	0.5
0120NA	75	100	200	0.5
0150NA	95	120	230	0.6
0180NA	115	150	285	0.7
0220NA	140	180	355	0.9
0270NA	170	225	435	1.0
0330NA	210	270	535	1.1
0370NA	235	300	600	1.1
0390NA	250	320	635	1.3
0430NA	270	350	695	1.7

Dimensions – NA Series



Stetron International Inc.

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