

# MDA

## 1/4" x 1 1/4" Time-delay ceramic tube fuses



**Product features**

- Time-delay
- Optional axial leads available
- 1/4" x 1-1/4" (6.35 x 31.75mm) physical size
- Ceramic tube, nickel-plated brass endcap construction
- UL Listed product meets standard 248-14

**Agency information**

- UL Listed Card: MDA 2/10 - 20A (Guide JDYX, File E19180)
- UL Recognized Card: MDA 25 - 30A (Guide JDYX2, File E19180)
- CSA Certification Card: MDA 2/10 - 20 (Class No. 1422-01)
- CSA Component Acceptance: MDA 25-30A (Class No. 1422-30)

**Environmental data**

- Shock: 1/100A and 8/10A – MIL-STD-202, Method 213, Test Condition I; 1A thru 30A – MIL-STD-202, Method 213, Test Condition J
- Vibration: 1/100A and 8/10A – MIL-STD-202, Method 201; 1/4A thru 30A – MIL-STD-202, Method 204, Test Condition C (Except 5g, 500Hz)

**Ordering**

- Specify packaging, product and option code.

Electrical Characteristics		
Rated Current	Amp Rating	Opening Time
1/4 - 30A	100%	None
	135%	60 Minutes Max.
	200%	120 Seconds Max.

Part Number	Voltage Rating		AC Interrupting Rating* (A)		DC Interrupting Rating (A) 125V	Typical DC Cold Resistance** (Ω)	Typical Melting I <sup>2</sup> t† AC	Typical Voltage Drop‡
	Vac	Vdc	250V	125V				
	MDA-1/4-R	250	-	35				
MDA-1/2-R	250	-	35	10000	-	1.78	2.53	1.42
MDA-3/4-R	250	-	35	10000	-	0.82	8.58	1.31
MDA-1-R	250	-	35	10000	-	0.56	12.21	1.03
MDA-1-1/2-R	250	-	100	10000	-	0.2565	27.5	0.691
MDA-2-R	250	-	100	10000	-	0.17	70.4	0.623
MDA-2-1/2-R	250	-	200	10000	-	0.068	31.79	0.213
MDA-3-R	250	-	200	10000	-	0.0525	44.99	0.182
MDA-4-R	250	-	200	10000	-	0.03575	147.4	0.162
MDA-5-R	250	-	200	10000	-	0.0256	380.49	0.145
MDA-6-R	250	-	200	10000	-	0.02035	587.73	0.141
MDA-7-R	250	-	200	10000	-	0.0165	638.33	0.137
MDA-8-R	250	-	200	10000	-	0.013	1038.4	0.134
MDA-10-R	250	-	200	10000	-	0.00925	1620.43	0.135
MDA-12-R	250	-	750	10000	-	0.00755	125.18	0.128
MDA-15-R	250	-	750	10000	-	0.00565	336.82	0.107
MDA-20-R	250	125	1500	10000	10000	0.004065	483.45	0.095
MDA-25A-R	250	125	1500	10000	10000	0.0031	734.69	0.105
MDA-30A-R	250	125	1500	10000	10000	0.002465	1096.7	0.110

\* Interrupting Ratings (Measured at 70% - 80% power factor on AC. The interrupting ratings for 25A, 30A were measured at 90% - 100% power factor on AC)

\*\* DC Cold Resistance (Measured at <10% of rated current)

† Typical Melting I<sup>2</sup>t (A2Sec) (I<sup>2</sup>t was measured at listed interrupting rating and rated voltage)

‡ Typical Voltage Drop (Voltage drop was measured at 25°C ambient temperature at rated current)



Powering Business Worldwide

**Dimensions - mm (in)**  
Drawing Not to Scale



**Time-Current Curves**



Packaging Code	
Packaging Code Prefix	Description
BK-	100 fuses packed into a cardboard carton
BK1-	1,000 fuses packed into a cardboard carton
BK8-	8,000 fuses packed into a cardboard carton

Option Code	
Option Code	Description
B	Sealed to withstand aqueous cleaning (Board Washable)
V	Axial leads - copper tinned wire with nickel plated brass overcaps

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