

# 1/4" x 1 1/4" Ceramic Tube Fuses MDA Series, Time-Delay

#### **Description**

- 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

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

#### **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**

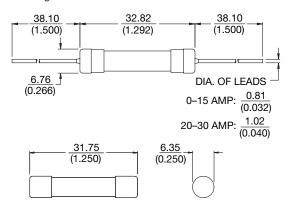
- Shock: 1/100A and 8/10A MIL-STD-202, Method 213, Test Condition I; 1A thru 30A – MIL-STD-202, Method 213, Test Condition J
- Vibration: 1/100A and 8/10A MIL-STD-202, Method 201; 1/4A thru 30A – MIL-STD-202, Method 204, Test Condition C (Except 5g, 500HZ)





## Dimensions - mm (in)

Drawing Not to Scale



### **Ordering**

· Specify packaging, product, and option code

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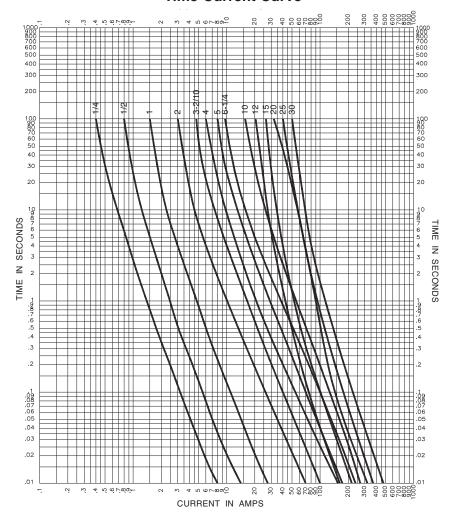
SPECIFICATIONS								
Part Number		tage ting		errupting * (amps)	DC Interrupting Rating (amps)	Typical DC Cold Resistance**	Typical Melting I²t†	Typical Voltage
Number	Vac	Vdc	250V	125V	125V	(Ω)	AC	Drop‡
MDA-1/4-R	250	-	35	10000	-	9.325	0.748	4.00
MDA-1/2-R	250	-	35	10000	-	1.925	2.53	1.42
MDA-3/4-R	250	-	35	10000	-	0.8555	8.58	1.31
MDA-1-R	250	-	35	10000	-	0.560	12.21	1.03
MDA-1-1/2-R	250	-	100	10000	-	0.2585	27.5	0.691
MDA-2-R	250	-	100	10000	-	0.170	70.4	0.623
MDA-2-1/2-R	250	-	200	10000	-	0.06685	31.79	0.213
MDA-3-R	250	-	200	10000	-	0.05350	44.99	0.182
MDA-4-R	250	-	200	10000	-	0.03625	147.4	0.162
MDA-5-R	250	-	200	10000	-	0.02610	380.49	0.145
MDA-6-R	250	-	200	10000	-	0.02120	587.73	0.141
MDA-7-R	250	-	200	10000	-	0.01690	638.33	0.137
MDA-8-R	250	-	200	10000	-	0.01350	1038.4	0.134
MDA-10-R	250	-	200	10000	-	0.00948	1620.43	0.135
MDA-12-R	250	-	750	10000	-	0.00725	125.18	0.128
MDA-15-R	250	-	750	10000	-	0.00553	336.82	0.107
MDA-20-R	250	125	1500	10000	10000	0.00400	483.45	0.095
MDA-25A-R	250	125	1500	10000	10000	0.00305	734.69	0.105
MDA-30A-R	250	125	1500	10000	10000	0.00243	1096.7	0.110

- \* Interrupting Ratings (Measured at 70% 80% power factor on AC. The interrupting ratings for 25Amp, 30Amp were measured at 90% 100% power factor on AC)
- \*\* DC Cold Resistance (Measured at ≤10% of rated current)
- † Typical Melting I²t (A²Sec) (I²t was measured at listed interrupting rating and rated voltage)
- ‡ Typical Voltage Drop (Voltage drop was measured at 25°C ambient temperature at rated current)



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#### **Time-Current Curve**



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

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