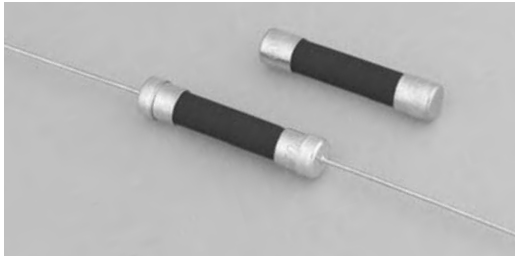


MDA

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 31.75 mm) physical size
- Ceramic tube, nickel-plated brass endcap construction
- UL Listed product meets standard 248-14

Agency information

- UL Listed Card: MDA 1/4 - 20 A (Guide JDYX, File E19180)
- UL Recognized Card: MDA 25 - 30 A (Guide JDYX2, File E19180)
- CSA Certification Card: MDA 1/4 - 20 A (Class No. 1422-01)
- CSA Component Acceptance: MDA 25 - 30 A (Class No. 1422-30)

General specifications

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

Ordering

- Specify packaging code prefix, part number and and option code. Replace the "I" with a "-" (i.e. BK-MDA-BV-1-4-R)

| Electrical characteristics | | |
|----------------------------|------------|------------------|
| Rated current | Amp rating | Opening time |
| 1/4 - 30 A | 100% | None |
| | 135% | 60 minutes max. |
| | 200% | 120 seconds max. |

| Part number | Voltage rating | | AC interrupting rating* (A) | | DC interrupting rating (A) 125 V | Typical DC cold resistance** (Ω) | Typical melting I ² t† AC | Typical voltage drop‡ |
|-------------|----------------|-----|-----------------------------|-------|----------------------------------|----------------------------------|--------------------------------------|-----------------------|
| | Vac | Vdc | 250 V | 125 V | | | | |
| | 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 | 125 | 200 | 10000 | 10000 | 0.068 | 31.79 | 0.213 |
| MDA-3-R | 250 | 125 | 200 | 10000 | 10000 | 0.0525 | 44.99 | 0.182 |
| MDA-4-R | 250 | 125 | 200 | 10000 | 10000 | 0.03575 | 147.4 | 0.162 |
| MDA-5-R | 250 | 125 | 200 | 10000 | 10000 | 0.0256 | 380.49 | 0.145 |
| MDA-6-R | 250 | 125 | 200 | 10000 | 10000 | 0.02035 | 587.73 | 0.141 |
| MDA-7-R | 250 | 125 | 200 | 10000 | 10000 | 0.0165 | 638.33 | 0.137 |
| MDA-8-R | 250 | 125 | 200 | 10000 | 10000 | 0.013 | 1038.4 | 0.134 |
| MDA-10-R | 250 | 125 | 200 | 10000 | 10000 | 0.00925 | 1620.43 | 0.135 |
| MDA-12-R | 250 | 125 | 750 | 10000 | 10000 | 0.00755 | 125.18 | 0.128 |
| MDA-15-R | 250 | 125 | 750 | 10000 | 10000 | 0.00565 | 336.82 | 0.107 |
| MDA-20-R | 250 | 125 | 1500 | 10000 | 10000 | 0.004065 | 483.45 | 0.095 |
| MDA-25-R | 250 | 125 | 1500 | 10000 | 10000 | 0.0031 | 734.69 | 0.105 |
| MDA-30-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 25 A, 30 A were measured at 90% - 100% power factor on AC)

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

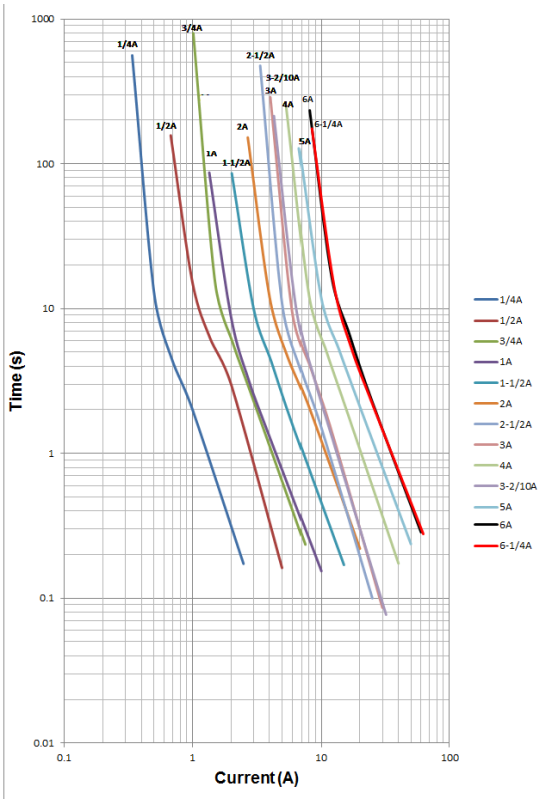
† Typical melting I²t (A²sec) (I²t was measured at listed interrupting rating and rated voltage)

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

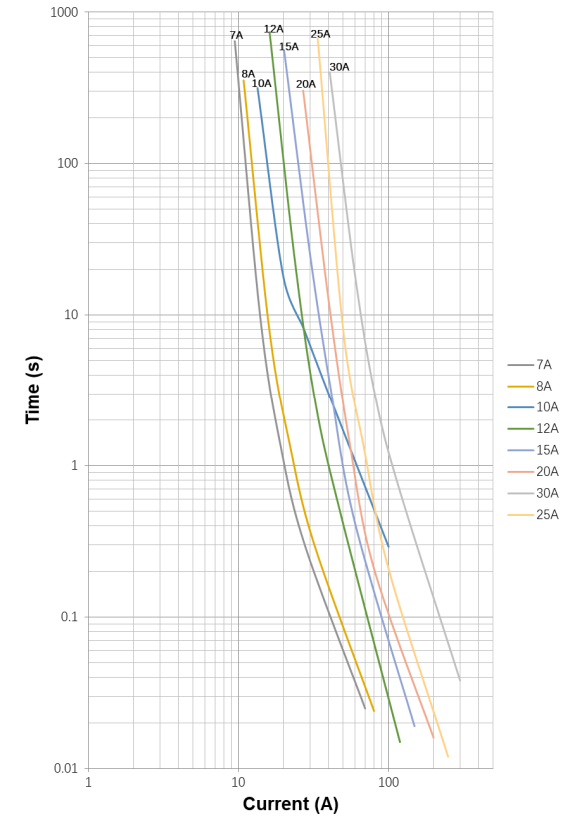


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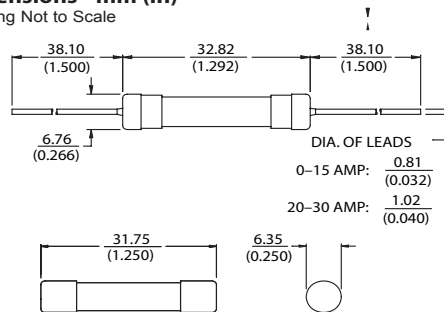
Time-current curves (1/4 A - 6 1/4 A)



Time-current curves (7 A - 30 A)



Dimensions - mm (in)
Drawing Not to Scale



| Packaging code | |
|-----------------------|--|
| Packaging code prefix | Description |
| BK- | 100 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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Publication No. 2002
August 2020

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