

Subminiature Through Hole MCRW Series, Fast Acting, Wire-in-Air

Description

- RoHS Compliant
- Axial Leaded
- Fast Acting, Wire-in-Air Design
- Tin-lead Plated Copper Lead Wires
- High Temperature Epoxy Plastic Body, UL 94 VO
- Interrupt 50 amperes at 125 VAC
- Low resistance values

| ELECTRICAL CHARACTERISTICS | |
|----------------------------|-------------------|
| % of Amp Rating | Opening Time |
| 100% | 4 hours minimum |
| 200% | 5 seconds maximum |

Agency Information

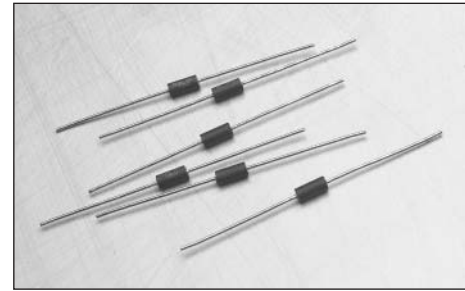
- UL Recognition Guide & File numbers: JDYX2 & E195337.
- CSA Certification Record No: LR 701159 & Class No: 1422 30 and 1422 01.

Environmental Data

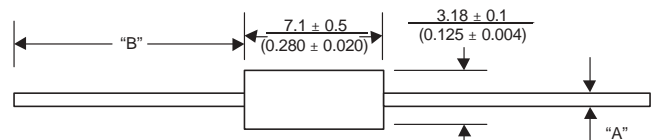
- Shock Resistance: MIL-STD-202, Method 213, Test Condition 1 (Sawtooth)
- Vibration Resistance: MIL-STD-202, Method 201 (10-55 Hz x 3 axis/ no load)
- Moisture Resistance: MIL-STD-202F, Method 106
- Soldering Heat Resistance: 260°C, 10 seconds per IEC 68-2-20
- Salt Spray: MIL-STD-202, Method 101, Test Condition B (48 Hours)

Ordering

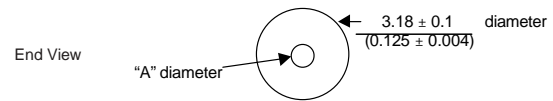
- Specify packaging code and product code (i.e., TR1/MCRW100mA)



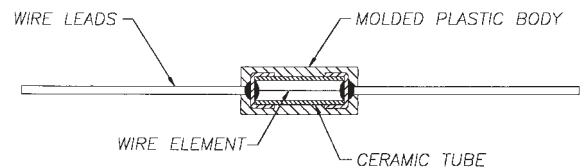
Dimensions mm/(inches)



| Amperage | "A" Diameter | Packaging Code | "B" Length |
|------------|--------------|----------------|------------|
| 100mA - 7A | 0.025" | BK1 | 1.5" |
| 10A - 15A | 0.032" | TR1 | 1.13" |



Construction

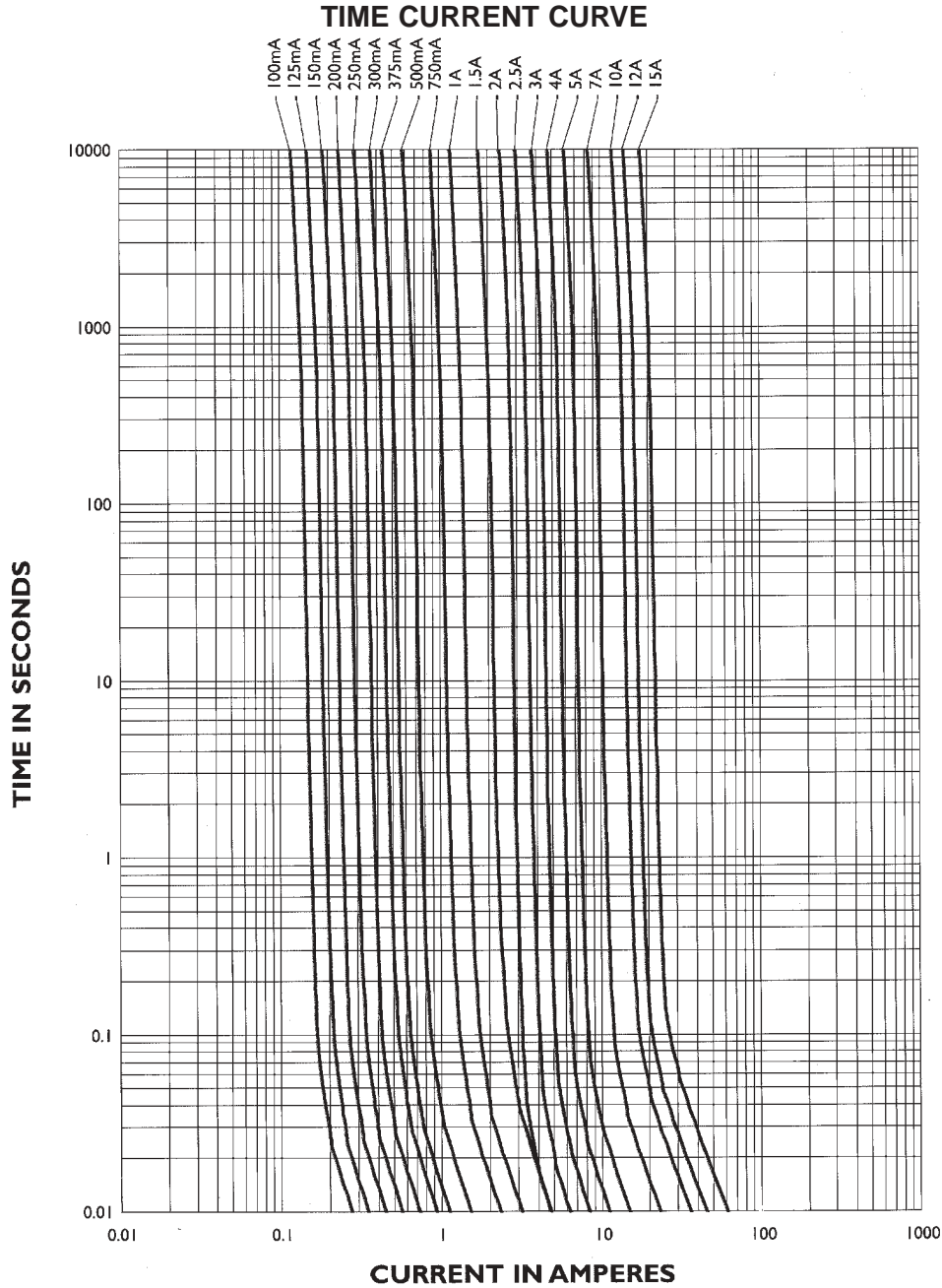


Soldering Method

- Heat Resistance: 260°C, 10 sec per IEC 68-2-20

| SPECIFICATIONS | | | | | | |
|----------------|----------------------|----------------------|-------|-----------------------------|------------------------------|---------------------------|
| Product Code | Voltage Rating AC/DC | Interrupting Rating* | | Resistance (ohms)** Typ. | Typical Melt I ^{††} | Typical Voltage Drop (V)‡ |
| | | AC | DC | | | |
| MCRW100mA | 125 V | 50 A | 300 A | 15.5 | 0.0006 | 0.68 |
| MCRW125mA | 125 V | 50 A | 300 A | 2.2 | 0.0009 | 0.61 |
| MCRW150mA | 125 V | 50 A | 300 A | 1.6 | 0.0015 | 0.54 |
| MCRW200mA | 125 V | 50 A | 300 A | 1.2 | 0.002 | 0.48 |
| MCRW250mA | 125 V | 50 A | 300 A | 0.85 | 0.004 | 0.43 |
| MCRW300mA | 125 V | 50 A | 300 A | 0.62 | 0.008 | 0.39 |
| MCRW375mA | 125 V | 50 A | 300 A | 0.49 | 0.012 | 0.35 |
| MCRW500mA | 125 V | 50 A | 300 A | 0.33 | 0.023 | 0.31 |
| MCRW750mA | 125 V | 50 A | 300 A | 0.19 | 0.056 | 0.25 |
| MCRW1A | 125 V | 50 A | 300 A | 0.13 | 0.10 | 0.22 |
| MCRW1.5A | 125 V | 50 A | 300 A | 0.07 | 0.25 | 0.18 |
| MCRW2A | 125 V | 50 A | 300 A | 0.054 | 0.27 | 0.24 |
| MCRW2.5A | 125 V | 50 A | 300 A | 0.041 | 0.50 | 0.22 |
| MCRW3A | 125 V | 50 A | 300 A | 0.031 | 0.9 | 0.20 |
| MCRW4A | 125 V | 50 A | 300 A | 0.023 | 1.6 | 0.19 |
| MCRW5A | 125 V | 50 A | 300 A | 0.018 | 3 | 0.17 |
| MCRW7A | 125 V | 50 A | 300 A | 0.012 | 7 | 0.15 |
| MCRW10A | 125 V | 50 A | 300 A | 0.007 | 21 | 0.098 |
| MCRW12A | 125 V | 50 A | 300 A | 0.006 | 35 | 0.093 |
| MCRW15A | 125 V | 50 A | 300 A | 0.004 | 63 | 0.088 |

* AC Interrupting Rating (Measured at designated voltage, 100%) DC Interrupting Rating (Measured at designated voltage, rise time of less than 50 microseconds, battery source)
 ** DC Cold Resistance (Measured at 10% of rated current)
 † Typical Melting I^{††} (Measured with a battery bank at rated DC voltage, 10x-rated current, rise time of calibrated circuit less than 50 microseconds)
 ‡ Typical Voltage Drop (Measured at rated current after temperature stabilizes)



| PACKAGING CODE | |
|-----------------------|---|
| Packaging Code | Description |
| BK1 | 1,000 pieces in bulk |
| TR1 | 2,500 pieces on tape-and-reel per EIA-296-E @ 5 mm pitch and 52.4mm inside tape spacing |

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