

# Subminiature Microtron® Fuses

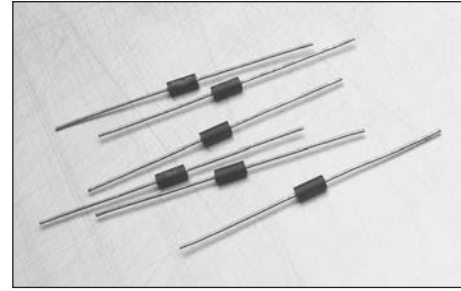
## MCRW Series, Fast-Acting, Wire-in-Air



### Description

- Axial-leaded fast-acting thru-hole fuse
- Matte tin-plated copper lead wires
- High temperature epoxy plastic body, UL 94V0
- 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 & E19180.
- CSA Certification Record No: LR 701159 & Class No: 1422 30 and 1422 01.

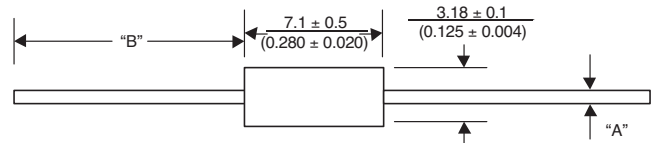
### Environmental Data

- Shock resistance: MIL-STD-202, Method 213B, Test Condition I (Sawtooth)
- Vibration resistance: MIL-STD-202, Method 201 (10-55Hz x 3 axis/ no load)
- Moisture resistance: MIL-STD-202F, Method 106
- Soldering heat resistance: MIL-STD-202, Method 210 Top side (260°C, 20 sec)
- Salt spray: MIL-STD-202, Method 101, Test Condition B (48 Hours)
- Solderability MIL-STD-202, Method 208H
- Operating Temperature: -55°C to 125°C

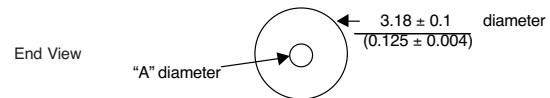
### Ordering

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

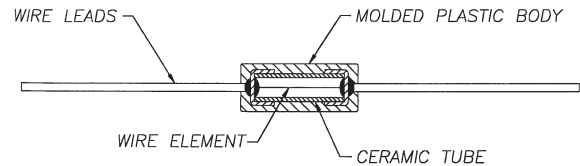
### Dimensions - mm (in)



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



### Construction



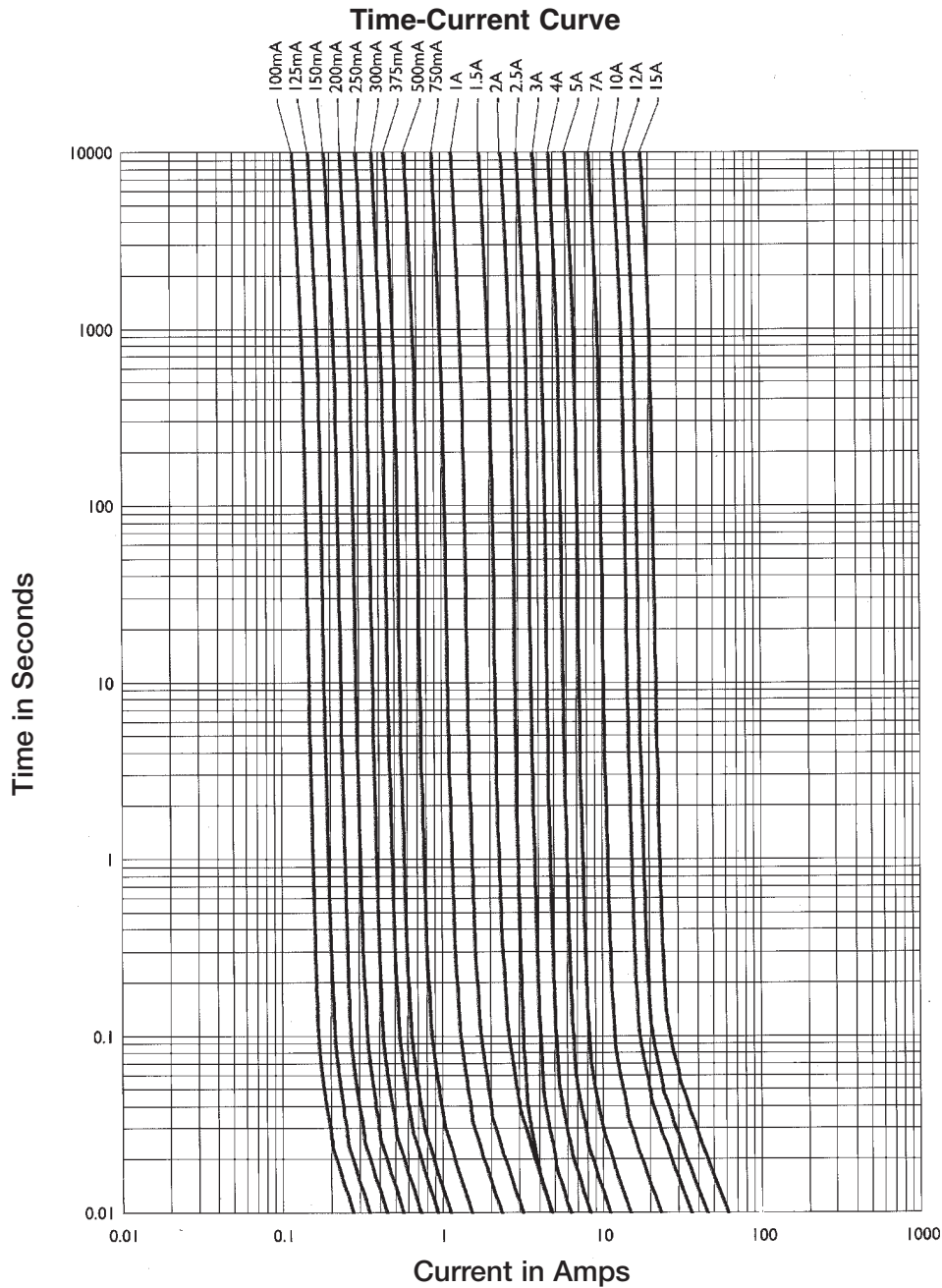
| Part Number | Voltage Rating<br>Vac/dc | Interrupting Rating* (amps) |     | Resistance (Ω)**<br>Typical | Typical Melt I <sup>††</sup> | Typical Voltage Drop‡ |
|-------------|--------------------------|-----------------------------|-----|-----------------------------|------------------------------|-----------------------|
|             |                          | Vac                         | Vdc |                             |                              |                       |
|             |                          | MCRW100mA                   | 125 |                             |                              |                       |
| MCRW125mA   | 125                      | 50                          | 300 | 2.2                         | 0.0009                       | 0.61                  |
| MCRW150mA   | 125                      | 50                          | 300 | 1.6                         | 0.0015                       | 0.54                  |
| MCRW200mA   | 125                      | 50                          | 300 | 1.2                         | 0.002                        | 0.48                  |
| MCRW250mA   | 125                      | 50                          | 300 | 0.85                        | 0.004                        | 0.43                  |
| MCRW300mA   | 125                      | 50                          | 300 | 0.62                        | 0.008                        | 0.39                  |
| MCRW375mA   | 125                      | 50                          | 300 | 0.49                        | 0.012                        | 0.35                  |
| MCRW500mA   | 125                      | 50                          | 300 | 0.33                        | 0.023                        | 0.31                  |
| MCRW750mA   | 125                      | 50                          | 300 | 0.19                        | 0.056                        | 0.25                  |
| MCRW1A      | 125                      | 50                          | 300 | 0.13                        | 0.10                         | 0.22                  |
| MCRW1.5A    | 125                      | 50                          | 300 | 0.07                        | 0.25                         | 0.18                  |
| MCRW2A      | 125                      | 50                          | 300 | 0.054                       | 0.27                         | 0.24                  |
| MCRW2.5A    | 125                      | 50                          | 300 | 0.041                       | 0.50                         | 0.22                  |
| MCRW3A      | 125                      | 50                          | 300 | 0.031                       | 0.9                          | 0.20                  |
| MCRW4A      | 125                      | 50                          | 300 | 0.023                       | 1.6                          | 0.19                  |
| MCRW5A      | 125                      | 50                          | 300 | 0.018                       | 3                            | 0.17                  |
| MCRW7A      | 125                      | 50                          | 300 | 0.012                       | 7                            | 0.15                  |
| MCRW10A     | 125                      | 50                          | 300 | 0.007                       | 21                           | 0.098                 |
| MCRW12A     | 125                      | 50                          | 300 | 0.006                       | 35                           | 0.093                 |
| MCRW15A     | 125                      | 50                          | 300 | 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<sup>††</sup> (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)



| <b>Packaging Code</b>        |  |
|------------------------------|--|
| <b>Packaging Code Prefix</b> | <b>Description</b>   |
| <b>BK1</b>                   | 1,000 fuses in bulk  |
| <b>TR1</b>                   | 2,500 fuses on tape-and-reel per EIA-296-F @ 5 mm pitch and 52.4mm inside tape spacing |

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