

# ANTREX Electronics

## Electronic Components Sourcing Information

---

### Product Reference Information

|                      |                              |
|----------------------|------------------------------|
| <b>Part Number:</b>  | BK1/MCRW250MA                |
| <b>Manufacturer:</b> | Eaton - Electronics Division |
| <b>Package:</b>      | Bulk                         |
| <b>Availability:</b> | Please confirm with sales    |

#### Product Page:

<https://antrexco.com/product/details/eaton-electronics-division/bk1-mcrw250ma.html>

#### Request a Quote:

[Submit RFQ for this part](#)



Scan for product page

### Contact Information

Email: [info@antrexco.com](mailto:info@antrexco.com)

WhatsApp: +86-186-8066-5326

Website: <https://antrexco.com>

### Quality & Trust

New & Original Components

Supplier verification and packaging condition review

CoC / RoHS / REACH documents available on request

Secure sourcing support for OEM / EMS projects

#### Note:

This PDF includes an ANTREX product reference cover page.

The original manufacturer datasheet follows from the next page.

## Description

- 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

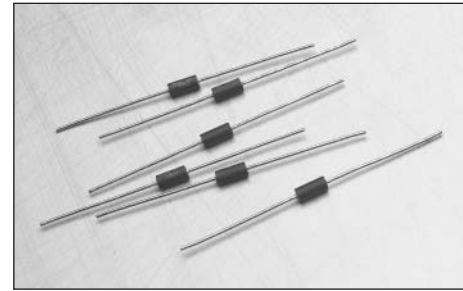
- UL Recognition Guide & File numbers: JDYX2 & E195337.
- CSA Certification Record No: LR 701159 & Class No: 1422 30 and 1422 01.

## Environmental Data

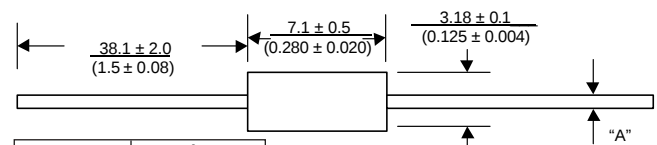
- Shock Resistance: MIL-STD-202, Method 213, Test Condition 1 (Sawtooth)
- Vibration Resistance: MIL-STD-202, Method 201 (10-55 Hz x 3 axis/ no load)
- Moisture Resistance: MIL-STD-202F, Method 106
- Soldering Heat Resistance: 260°C, 10 seconds per IEC 68-2-20
- Salt Spray: MIL-STD-202, Method 101, Test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

## Ordering

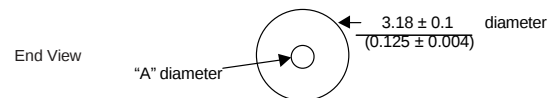
- Specify product code and packaging code



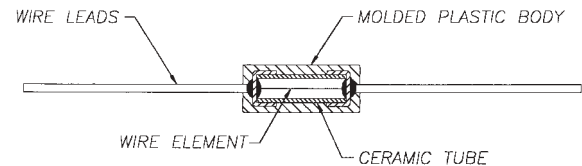
## Dimensions <sup>mm/(inches)</sup>



| Amperage   | "A" Diameter |
|------------|--------------|
| 100mA - 7A | 0.025"       |
| 10A - 15A  | 0.032"       |



## Construction



## Soldering Method

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

| SPECIFICATIONS |                         |                      |       |                             |                                |                           |
|----------------|-------------------------|----------------------|-------|-----------------------------|--------------------------------|---------------------------|
| Product Code   | Voltage Rating<br>AC/DC | Interrupting Rating* |       | Resistance (ohms)**<br>Typ. | Typical Melt I <sup>2</sup> t† | 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                     |

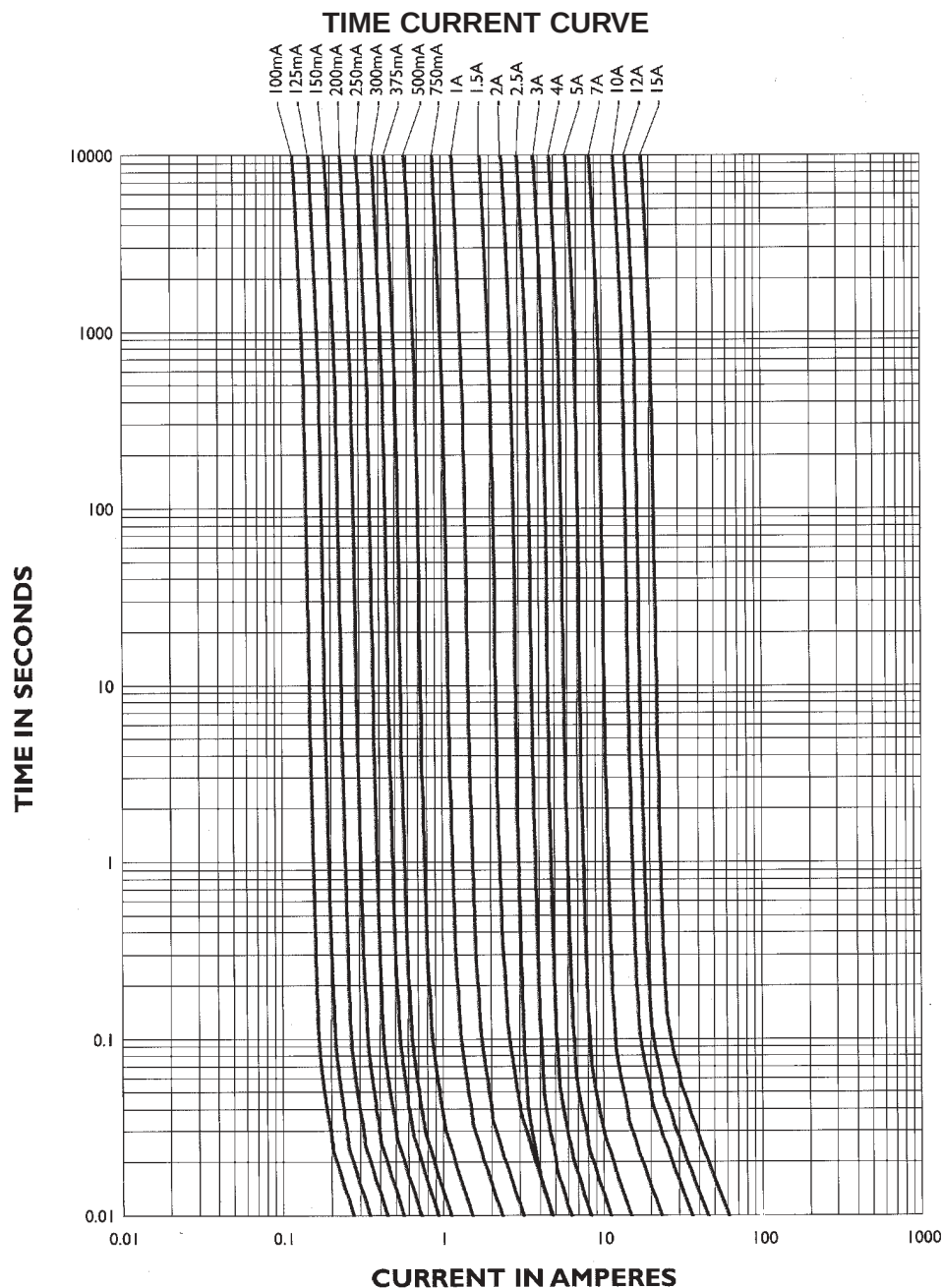
\* AC Interrupting Rating (Measured at designated voltage, 100%) DC Interrupting Rating (Measured at designated voltage, rise time of less than 50 microseconds, battery source)

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

† Typical Melting I<sup>2</sup>t (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)

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



| 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 |