

## Subminiature Microtron<sup>®</sup> Fuses

MCRS Series, Time-Delay, Wire-in-Air

#### Description

- Axial-leaded time-delay thru-hole fuse
- Matte tin-plated copper lead wires
- High temperature epoxy plastic body, UL 94V0

Electrical Characteristics			
% of Amp Rating	Opening Time		
100%	4 hours minimum		
200%	30 seconds maximum		

#### Agency Information

- UL Recognition Guide & File numbers: JDYX2 & E19180.
- CSA Certification Record No: LR 701159 & Class No: 1422 30 and 1422 01.

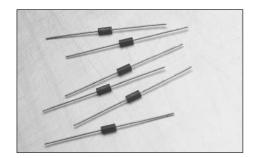
#### **Environmental Data**

- 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 Temperating: -55°C to 125°C

#### Ordering

Specify packaging

· Insert packaging code prefix before part number. E.g., TR1 (or BK1)/MCRS5A

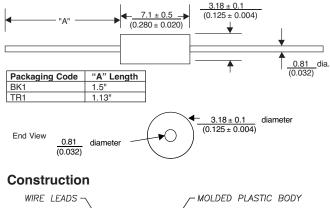


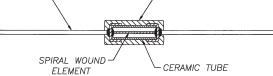
HALOGEN

FREE

RoHS

#### **Dimensions - mm (in)**





Specifications							
Part Number	Voltage Rating	Interrupting Rating* (amps)		Resistance (Ω)**	Typical Melt	Typical Voltage	
	Vac/dc	Vac	Vdc	Typical	l²t†	Drop‡	
MCRS250mA	125	50	300	3.20	0.042	2.20	
MCRS300mA	125	50	300	2.57	0.056	2.02	
MCRS375mA	125	50	300	1.66	0.101	1.69	
MCRS500mA	125	50	300	1.07	0.18	1.42	
MCRS750mA	125	50	300	0.55	0.44	1.09	
MCRS1A	125	50	300	0.36	0.78	0.91	
MCRS1.25A	125	50	300	0.23	1.41	0.77	
MCRS1.5A	125	50	300	0.18	1.9	0.7	
MCRS2A	125	50	300	0.12	3.4	0.59	
MCRS2.5A	125	50	300	0.08	6.1	0.5	
MCRS3A	125	50	300	0.06	8.1	0.45	
MCRS4A	125	50	300	0.04	15	0.38	
MCRS5A	125	50	300	0.02	35	0.29	
MCRS7A	125	50	300	0.01	63	0.25	

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)

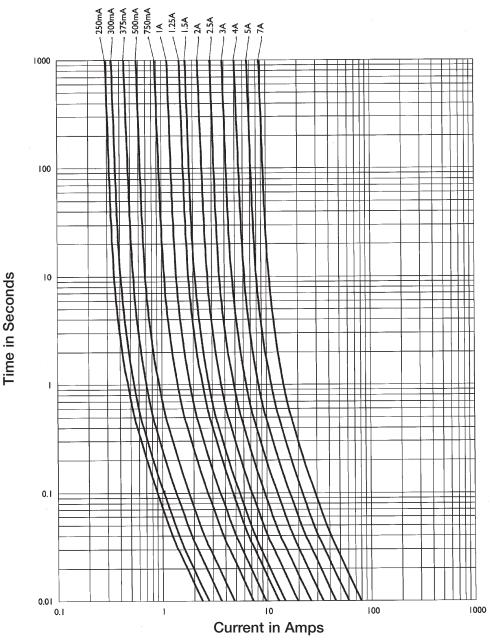
Typical Melting I<sup>2</sup>t (Measured with a battery bank at rated DC voltage, 10x-rated current, rise time of calibrated circuit less than 50 microseconds) t

Typical Voltage Drop (Measured at rated current after temperature stabilizes) ±

0709 BU-SB09025

Data Sheet 4075

### **Time-Current Curve**



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

The only controlled copy of this Data Sheet is the electronic read-only version located on the Cooper Bussmann Network Drive. All other copies of this document are by definition uncontrolled. This bulletin is intended to clearly present comprehensive product data and provide technical information that will help the end user with design applications. Cooper Bussmann reserves the right, without notice, to change design or construction of any products and to discontinue or limit distribution of any products. Cooper Bussmann also reserves the right to change or update, without notice, any technical information contained in this bulletin. Once a product has been selected, it should be tested by the user in all possible applications.

Life Support Policy: Cooper Bussmann does not authorize the use of any of its products for use in life support devices or systems without the express written approval of an officer of the Company. Life support systems are devices which support or sustain life, and whose failure to perform, when properly used in accordance with instructions for use provided in the labeling, can be reasonably expected to result in significant injury to the user.



# **Mouser Electronics**

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

### Eaton:

TR1/MCRS1A TR1/MCRS2A TR1/MCRS2.5A TR1/MCRS5A TR1/MCRS500MA TR1/MCRS750MA TR1/MCRS4A TR1/MCRS7A TR1/MCRS375MA TR1/MCRS250MA TR1/MCRS1.25A TR1/MCRS1.5A TR1/MCRS3A TR1/MCRS300MA BK1-MCRS4A BK1-MCRS750MA BK1-MCRS500MA BK1-MCRS7A BK1-MCRS375MA BK1-MCRS2A BK1-MCRS3-5A BK1-MCRS1A BK1-MCRS3A BK1-MCRS1-5A BK1-MCRS5A BK1-MCRS2-5A BK1/MCRS3.5A