



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

### 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**

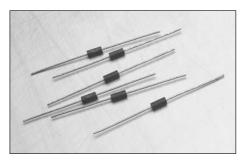
- UL Recognition Guide & File numbers: JDYX2 & E195337.
- CSA Certification Record No: LR 701159 & Class No: 1422 30 and 1422 01.

#### **Environmental Data**

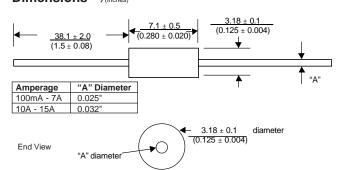
- Shock Resistance: MIL-STD-202, Method 213, Test Condition 1 (Sawtooth)
- Vibration Resistance: MIL-STD-202, Method 201 (10-55 Hz x 3 axis/ no load)
- Moisture Resistance: MIL-STD-202F, Method 106
- Soldering Heat Resistance: 260°C, 10 seconds per
- Salt Spray: MIL-STD-202, Method 101, Test Condition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

#### **Ordering**

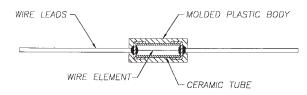
Specify product code and packaging code



Dimensions mm/(inches)



#### Construction



#### **Soldering Method**

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

SPECIFICATIONS							
Product Code	Voltage Rating AC/DC		upting ting*	Resistance (ohms)** Typ.	Typical Melt I²t†	Typical Voltage Drop (V)‡	
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 I²t (Measured with a battery bank at rated DC voltage, 10x-rated current, rise time of calibrated circuit less than 50 microseconds)

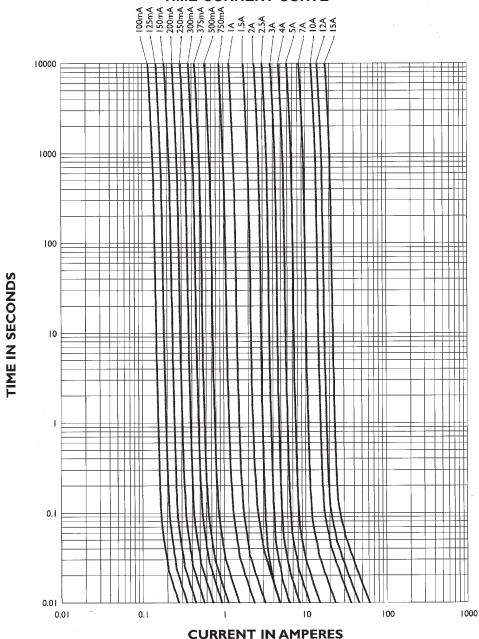
Typical Voltage Drop (Measured at rated current after temperature stabilizes)





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

## TIME CURRENT CURVE



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			



Visit us on the Web at www.cooperET.com

© Cooper Electronic Technologies 2003 3601 Quantum Boulevard Boynton Beach, Florida 33426-8638 Tel: +1-561-752-5000 Toll Free: +1-888-414-2645 Fax: +1-561-742-1178

This bulletin is intended to present product design solutions and technical information that will help the end user with design applications. Cooper Electronic Technologies reserves the right, without notice, to change design or construction of any products and to discontinue or limit distribution of any products. Cooper Electronic Technologies 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.