

Cooper Bussmann

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MCRS500mA

Product Information	
Product Type:	Fuse
Product Family:	Electronic

Description

- Axial Leaded Slow Blow Thru-Hole Fuse
- Tin-lead Plated Copper Lead Wires
- High Temperature Epoxy Plastic Body, UL 94 VO

ELECTRICAL CHARACTERISTICS	
% of Amp Rating	Opening Time
100%	4 hours minimum
200%	30 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

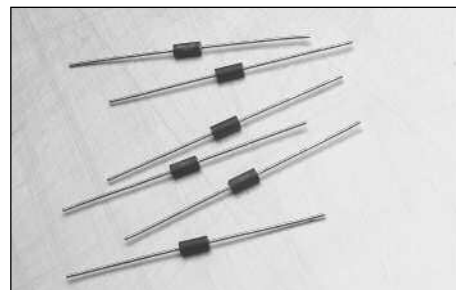
- Shock Resistance: MIL-STD-202, Method 213, Test Condition 1 (Sawtooth)
- Vibration Resistance: MIL-STD-202, Method 201 (10-55 Hz x 3 axis/ no load)
- Moisture Resistance: MIL-STD-202F, Method 106
- Soldering Heat Resistance: 260°C, 10 seconds per IEC 68-2-20
- Salt Spray: MIL-STD-202, Method 101, Test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

Ordering

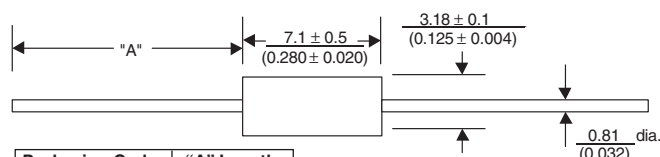
- Specify packaging and product code (i.e., TR1/MCRS250mA)

Soldering Method

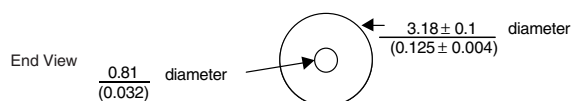
- Heat Resistance: 260°C, 10 sec per IEC 68-2-20



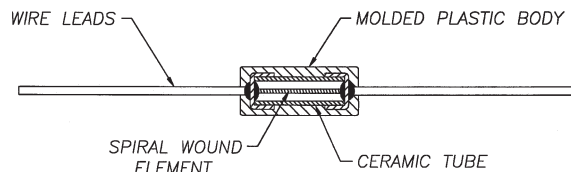
Dimensions



Packaging Code	"A" Length
BK1	1.5"
TR1	1.13"



Construction



SPECIFICATIONS

Product Code	Voltage Rating AC/DC	Interrupting Rating*		Resistance (ohms)** Typ.	Typical Melt I ² t†	Typical Voltage Drop (V)‡
		AC	DC			
MCRS250mA	125 V	50 A	300 A	3.20	0.042	2.20
MCRS300mA	125 V	50 A	300 A	2.57	0.056	2.02
MCRS375mA	125 V	50 A	300 A	1.66	0.101	1.69
MCRS500mA	125 V	50 A	300 A	1.07	0.18	1.42
MCRS750mA	125 V	50 A	300 A	0.55	0.44	1.09
MCRS1A	125 V	50 A	300 A	0.36	0.78	0.91
MCRS1.25A	125 V	50 A	300 A	0.23	1.41	0.77
MCRS1.5A	125 V	50 A	300 A	0.18	1.9	0.7
MCRS2A	125 V	50 A	300 A	0.12	3.4	0.59
MCRS2.5A	125 V	50 A	300 A	0.08	6.1	0.5
MCRS3A	125 V	50 A	300 A	0.06	8.1	0.45
MCRS4A	125 V	50 A	300 A	0.04	15	0.38
MCRS5A	125 V	50 A	300 A	0.02	35	0.29
MCRS7A	125 V	50 A	300 A	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)

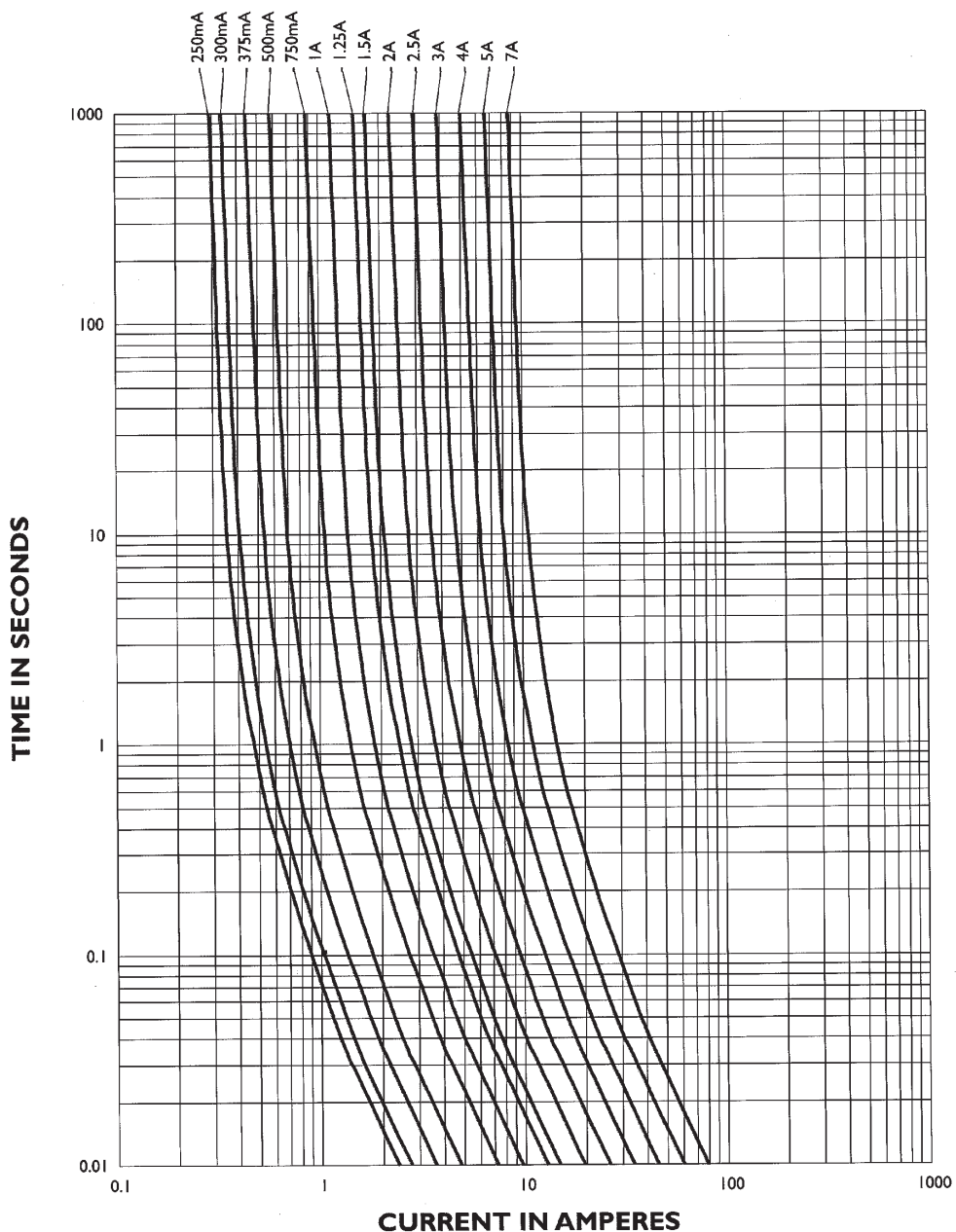
† Typical Melting I²t (Measured with a battery bank at rated DC voltage, 10x-rated current, rise time of calibrated circuit less than 50 microseconds)

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

Subminiature Microtron® Fuses

MCRS Series, Slow Blow, 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