

Subminiature Microtron® 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.

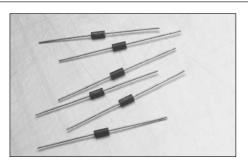
Environmental Data

- 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

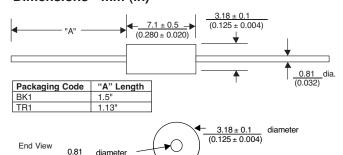
Ordering

Specify packaging

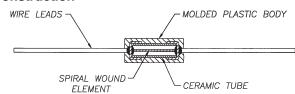
· Insert packaging code prefix before part number. E.g., TR1 (or BK1)/MCRS5A



Dimensions - mm (in)



Construction



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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)

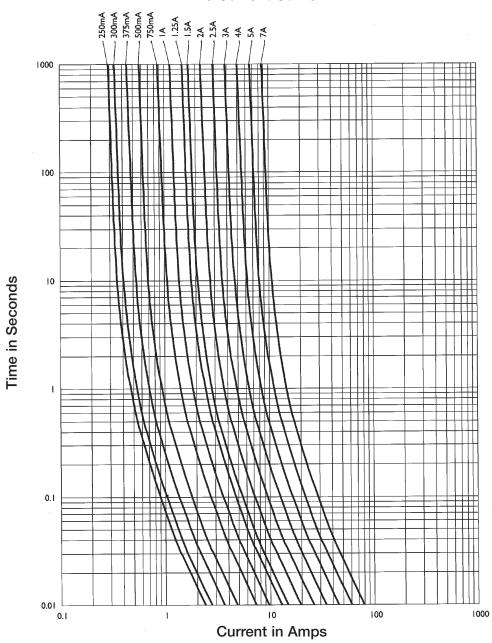
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Typical Melting I2t (Measured with a battery bank at rated DC voltage, 10x-rated current, rise time of calibrated circuit less than 50 microseconds)

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

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			

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Authorized Distributor

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TR1/MCRS1.5A