

High I²t Chip™ Fuses CC12H Series

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Description

- High I²t 1206 footprint surface mount fuse
- High inrush withstand capability
- Excellent temperature and cycling characteristics
- RoHS compliant, and lead free and halogen free construction
- Compatible with solder reflow and wave solder

Electrical Characteristics		
Amp Rating	% of Amp Rating	Opening Time
1-5A	100%	4 Hours Minimum
1-3A	200%	1-60 Seconds
1-3A	250%	5 Seconds Maximum
1-5A	300%	0.1-3 Seconds
1-5A	1000%	0.2-20mS

Agency Information

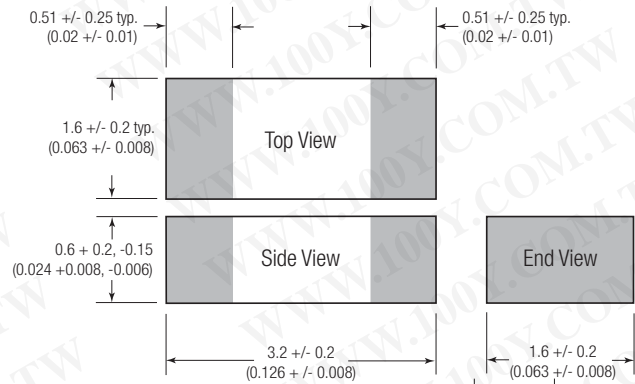
- **cULus** Recognition File number: E19180 (1- 5A)

Environmental Data

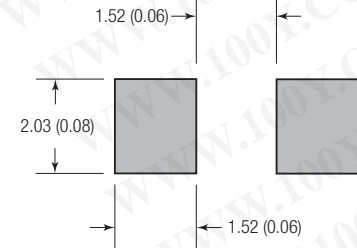
- Thermal Shock: MIL-STD-202, Method 107, Test Condition B
- Vibration: MIL-STD-202, Method 204, Test Condition C
- Moisture Resistance: MIL-STD-202, Method 106, 50 day cycle
- Solderability: ANSI/J-STD-002, Test B
- Normal ambient temperature: 23°C
- Operating temperature range -40°C to 125°C

Dimensions - mm (in)

Drawing Not to Scale



Pad Layout - mm (in)



Soldering Method

- Wave Solder Immersion: 260°C, 10 seconds maximum.
- Solder Reflow: 260°C, 30 seconds maximum.

Packaging and Ordering

- 3000 fuses on 8mm tape-and-reel on a 7 inch (178mm) reel per EIA Standard 481. Specify Catalog Symbol and package code suffix "-TR" (e.g., CC12H1A-TR)

Specifications

Catalog Symbol	Current Rating (Amps)	Amp Rating Mark	Voltage Rating (Vdc)	Interrupting Rating* (Amps)	Resistance (Ω)** Typical	Typical Melt (I ² t)† DC	Typical Voltage Drop (mV)‡
CC12H1A	1	H	63	50	0.35	0.18	490
CC12H1.5A	1.5	K	63	50	0.178	0.4	355
CC12H2A	2	N	63	50	0.10	1.1	305
CC12H2.5A	2.5	O	63	50	0.07	1.7	240
CC12H3A	3	P	63	50	0.045	2.2	185
CC12H3.5A	3.5	R	63	50	0.034	2.7	180
CC12H4A	4	S	63	50	0.03	3.2	169
CC12H4.5A	4.5	X	32	100	0.025	4.2	160
CC12H5A	5	T	32	100	0.021	6.0	140

* DC Interrupting Rating (Measured at rated voltage, time constant of less than 50 microseconds, battery source)

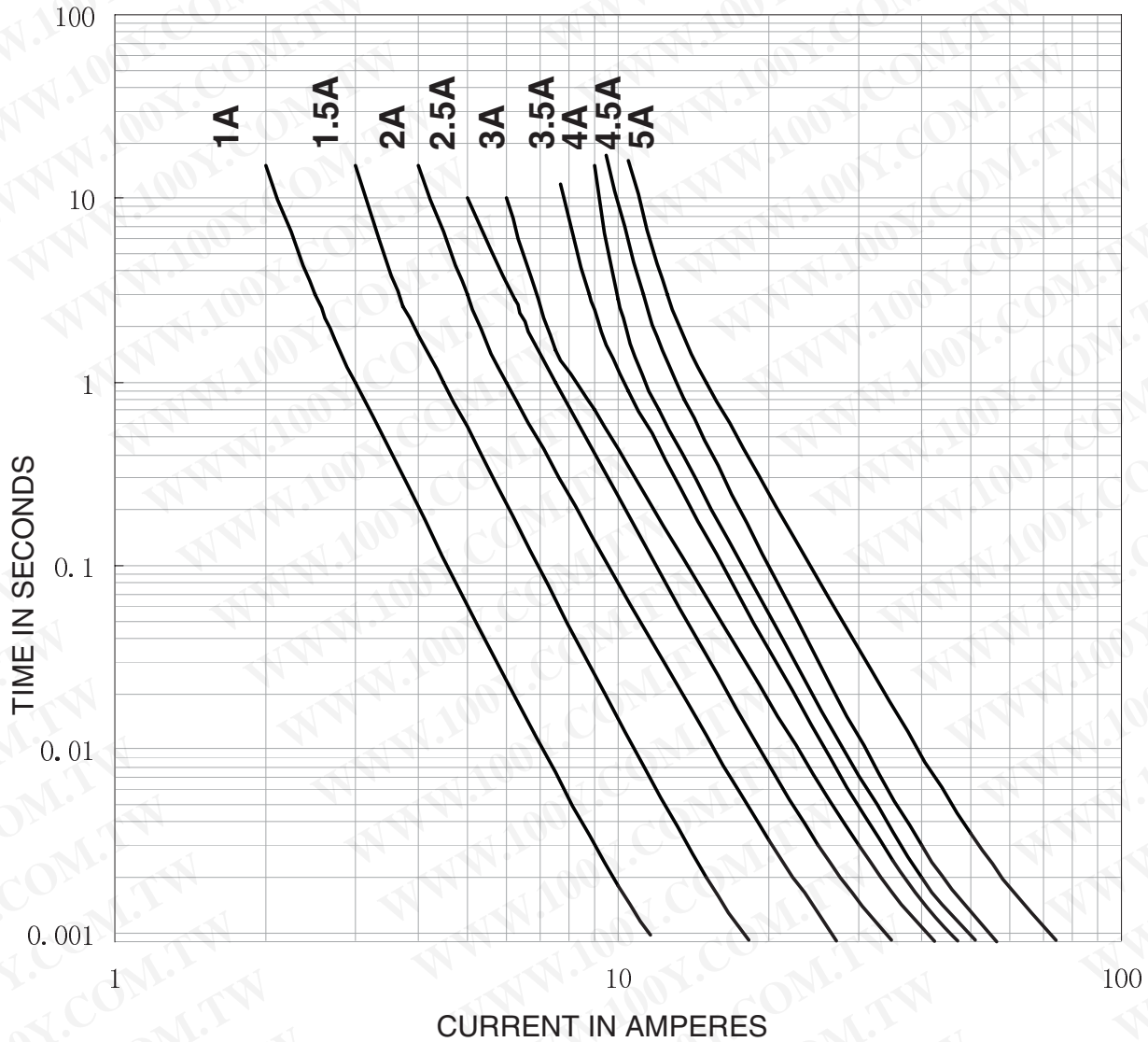
** DC Cold Resistance (Measured at 10% of rated current)

† Typical Melting I²t (Measured with a battery bank at rated DC voltage, 10x-rated current, not to exceed IR, time constant of calibrated circuit less than 50 microseconds)

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

Device designed to carry rated current for four hours minimum. An operating current of 80% or less of rated current is recommended, with further derating required at elevated ambient temperatures.

Time-Current Curves



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