

0603FA

Fast-acting Chip™ surface mount fuse



Surface Mount Device

Product features

- AEC-Q200 qualified
- Fast-acting surface-mount fuse
- Satisfies the EIA/IS-722 standard
- Solder immersion compatible

Agency information

- UL Recognition Guide & File numbers: JDYX2 & E19180
- CSA Component Acceptance: 053787 C 000 & Class Number: 1422 30

Soldering method

- Wave immersion: +260 °C, 10 seconds maximum
- Infrared reflow: +260 °C, 30 seconds maximum

Environmental data

- Operating temperature: -55 °C to +125 °C with proper derating
- Load humidity test: MIL-STD-202, Method 103B
- Moisture resistance test: MIL-STD-202, Method 106E
- Thermal shock test: MIL-STD-202, Method 107D
- High frequency vibration test: MIL-STD-202, Method 204D

Ordering

- Specify packaging and product code (i.e., TR/0603FA250-R)

Electrical Characteristics	
% of Amp Rating	Opening Time
100%	4 hours minimum
200%	60 seconds maximum

Specifications							
Part Number	Current Rating (A)	Voltage Rating	Interrupting Rating (A) at Rated Voltage*	DC Cold Resistance** (Ω) Typical	Typical Melting I _t ***	Typical Voltage Drop†	Alpha Code Marking‡
0603FA250-R	250 mA	50 Vdc	50	3.100	0.0004	0.921	D
0603FA375-R	375 mA	50 Vdc	50	1.250	0.0009	0.605	E
0603FA500-R	500 mA	32 Vac/50 Vdc	50 ac/35 dc	1.025	0.00193	0.600	F
0603FA750-R	750 mA	32 Vac/dc	50	0.450	0.0090	0.440	G
0603FA1-R	1	32 Vac/dc	50	0.150	0.0025	0.211	H
0603FA1.25-R	1.25	32 Vac/dc	35	0.108	0.0130	0.151	J
0603FA1.5-R	1.5	32 Vac/dc	35	0.086	0.0319	0.138	K
0603FA2-R	2	32 Vac/dc	35	0.051	0.0491	0.116	N
0603FA2.5-R	2.5	32 Vac/dc	35	0.037	0.0625	0.113	O
0603FA3-R	3	32 Vac/dc	35	0.028	0.0699	0.110	P
0603FA3.5-R	3.5	32 Vac/dc	35	0.022	0.1200	0.103	R
0603FA4-R	4	32 Vac/dc	35	0.017	0.2430	0.097	S
0603FA5-R	5	32 Vac/dc	35	0.011	0.6950	0.090	T

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

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

*** Typical melting I_t (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) (0603FA4A and 5A measured at interrupting rating)

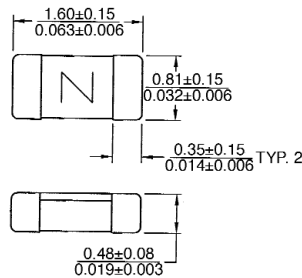
† Typical voltage drop (Measured at rated current after temperature stabilizes)

‡ Alpha code to be marked on the top of fuse body for all ratings

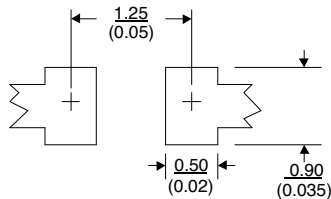


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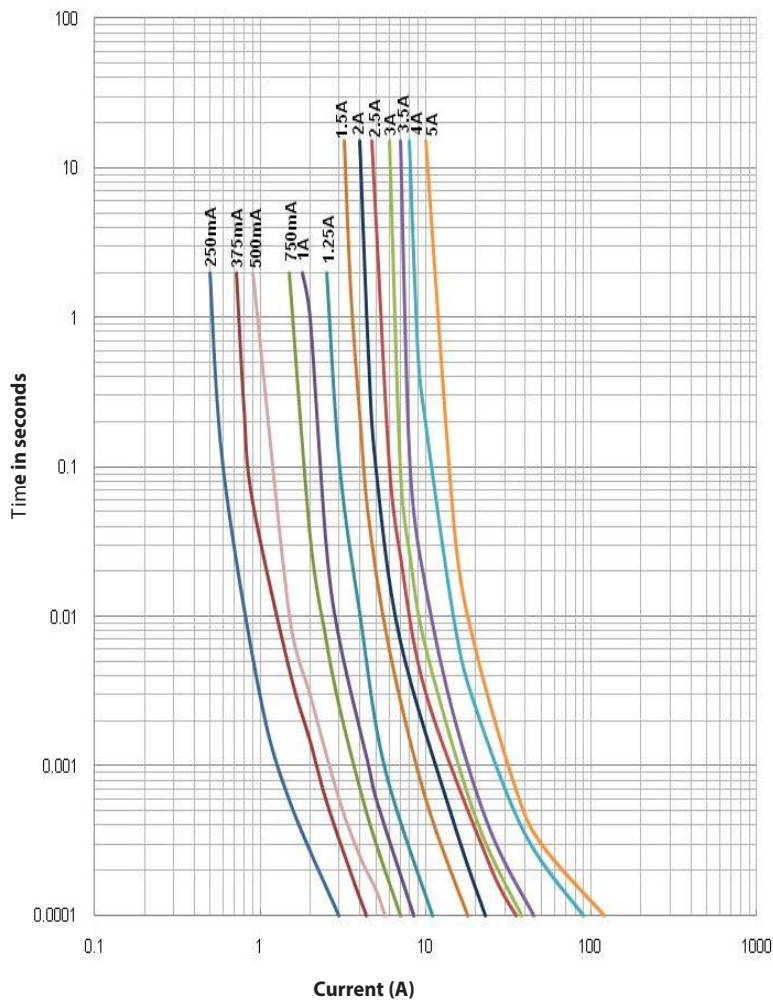
Dimensions – mm/inches
Drawing Not to Scale



Recommended Pad Layout – mm/inches



Time Current Curve



Packaging Code	
Packaging Code Prefix	Description
TR	5,000 fuses on paper tape and reeled on a 178 mm (7 inch) diameter reel per EIA Standard 481-1

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