

# Surface Mount Fuses

## Thin-Film Surface Mount

### SlimLine™ 0603 Very Fast-Acting Fuse 434 Series



- For RoHS compliant and Lead-Free designs use 467 series.
- The SlimLine 0603 fuse is an extremely small, low profile design (0603 chip size) utilizing thin-film technology to achieve precise control of electrical characteristics.
- The lower height profile produces a flat surface for improved performance in pick-and-place operations and an alternate solution for height critical applications.

#### ELECTRICAL CHARACTERISTICS:

% of Ampere Rating	Opening Time at 25°C
100%	4 hours, <b>Minimum</b>
200%	5 seconds, <b>Maximum</b>
300%	0.2 seconds, <b>Maximum</b>

**AGENCY APPROVALS:** Recognized under the Components Program of Underwriters Laboratories and Certified by CSA.  
**AGENCY FILE NUMBERS:** UL E10480, CSA LR 29862.

#### INTERRUPTING RATINGS:

.25–1A                    50 A @ 32 V AC/DC  
 1.25–5A                35 A @ 32 V AC/DC

#### ENVIRONMENTAL SPECIFICATIONS:

**Operating Temperature:** –55°C to 90°C. Consult temperature derating chart on page 4. For operation above 90°C contact Littelfuse.

**Vibration:** Per MIL-STD-202F.

**Insulation Resistance (After Opening):** Greater than 10,000 ohms.

**Resistance To Soldering Heat:** Withstands 60 seconds above 200°C up to 260°C, maximum.

**Thermal Shock:** Withstands 5 cycles of –55°C to 125°C.

#### PHYSICAL SPECIFICATIONS:

**Materials:** Body: Epoxy Substrate  
 Terminations: Copper/Nickel/Tin-Lead (95/5)  
 Cover Coat: Conformal Coating

#### Soldering Parameters(see page 3 for typical soldering profile):

Wave Solder — 260°C, 10 seconds maximum  
 Reflow Solder— 260°C, 30 seconds maximum

**PACKAGING SPECIFICATIONS:** 8mm Tape and Reel per EIA-RS481-1 (IEC 286, part 3); 5,000 per reel, add packaging suffix, NR.

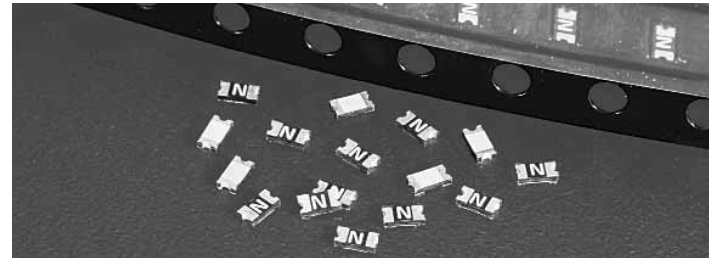
#### PATENTED:

#### ORDERING INFORMATION:

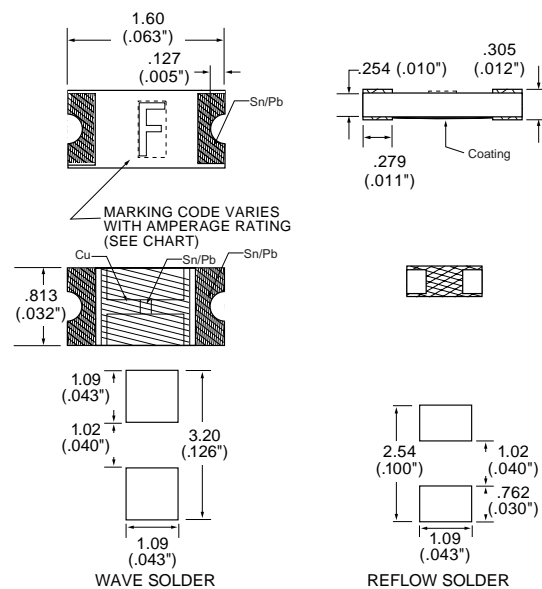
Catalog Number	Ampere Rating	Marking Code	Voltage Rating	Nominal Resistance Cold Ohm <sup>1</sup>	Melting I <sup>2</sup> t (A <sup>2</sup> Sec.) <sup>2</sup>
0434.250	.25	D	32	0.375	0.0030
0434.375	.375	E	32	0.265	0.0053
0434.500	.5	F	32	0.193	0.0087
0434.680	.68	X	32	0.125	0.0109
0434.750	.75	G	32	0.114	0.0171
0434.001	1	H	32	0.072	0.0210
0434.1.25	1.25	J	32	0.054	0.0320
0434.01.5	1.5	K	32	0.048	0.0526
0434.1.75	1.75	L	32	0.039	0.0661
0434.002	2	N	32	0.036	0.104
0434.02.5	2.5	O	32	0.028	0.175
0434.003	3	P	32	0.023	0.198
0434.03.5	3.5	R	32	0.019	0.265
0434.004	4	S	32	0.017	0.352
0434.005	5	T	32	0.013	1.297

<sup>1</sup> Measured at 10% of rated current, 25°C.

<sup>2</sup> Measured at rated voltage.



#### Reference Dimensions:



#### Average Time Current Curves

