

# Surface Mount Fuses

## Thin-Film Surface Mount

### RoHS Pb SlimLine™ Lead-Free 0402 Very Fast-Acting Fuse 435 Series



- RoHS compliant and Lead-Free
- The SlimLine 0402 fuse is the world's smallest fuse available.
- Ideal for space sensitive applications including disc drives and handheld devices including mobile phones, cameras and personal communication devices.
- The low profile flat surface and full-faced termination are designed for superior performance in surface mount assembly processes.

#### 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:** 35A @ 32 VDC

#### 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: 100% Copper/Nickel/Tin

Cover Coat: Conformal Coating

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

Reflow Solder— 260°C, 30 seconds maximum

**PACKAGING SPECIFICATIONS:** 8mm Paper Tape and Reel per EIA-RS481-1 (IEC 286, part 3); 10,000 per reel, add packaging suffix, KR.

#### PATENTED

#### ORDERING INFORMATION:

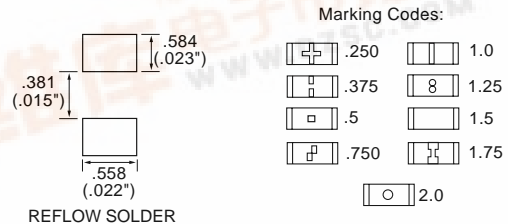
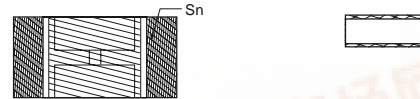
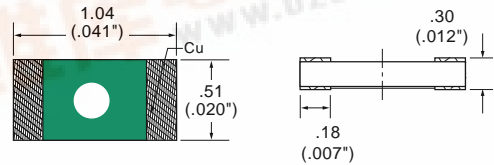
Catalog Number	Ampere Rating	Voltage Rating	Nominal Resistance Cold Ohm <sup>1</sup>	Nominal Melting I <sup>2</sup> t (A <sup>2</sup> Sec.)
0435.250	.25	32	0.220	0.0025
0435.375	.375	32	0.185	0.0035
0435.500	.5	32	0.150	0.0053
0435.750	.75	32	0.105	0.012
0435.001	1	32	0.072	0.020
0435 1.25	1.25	32	0.060	0.035
0435 01.5	1.5	32	0.047	0.056
0435 1.75	1.75	32	0.038	0.075
0435 002.	2	32	0.030	0.100

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

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



Reference Dimensions:



REFLOW SOLDER

#### Average Time Current Curves

