

Surface Mount Fuses

Thin-Film Surface Mount

SlimLine™ 1206 Very Fast-Acting Fuse 433 Series



- The SlimLine 1206 fuse is an extremely small, low profile design (1206 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 application.
- Mounting pad and electrical specification are identical to the popular 429 Series specifications.

ELECTRICAL CHARACTERISTICS:

| % of Ampere Rating | Opening Time at 25°C |
|--------------------|-----------------------------|
| 100% | 4 hours, Minimum |
| 200% | 5 seconds, Maximum |
| 300% | 0.2 seconds, Maximum |

AGENCY APPROVALS: Recognized under the Components Program of Underwriters Laboratories and Certified by CSA.

AGENCY FILE NUMBERS: UL E10480, CSA LR 29862.

INTERRUPTING RATINGS:

| | |
|---------------|--------------------|
| 0.125 – .375A | 50 A @ 125 V AC/DC |
| 0.5 – 2A | 50 A @ 63 V AC/DC |
| 2.5 – 3A | 50 A @ 32 V AC/DC |
| 4 – 7A | 35 A @ 24 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.

Shelf Life (Solderability): 1 year min.

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

PHYSICAL SPECIFICATIONS:

Materials: Body: Epoxy Substrate

Terminations: Copper/Nickel/Tin-Lead (95/5)

Cover Coat: Conformal Coating

Soldering Parameters:

Wave Solder — 260°C, 10 seconds maximum

Infrared 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.

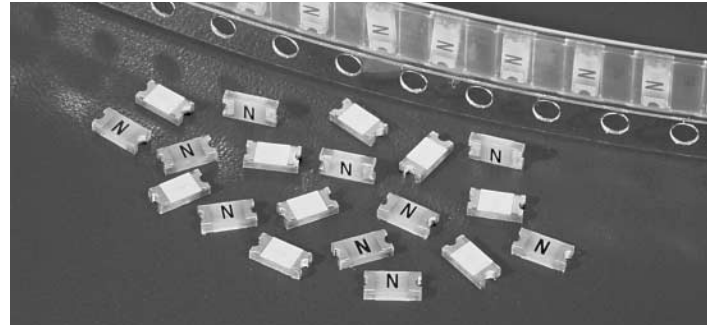
PATENTS: Patent Pending

ORDERING INFORMATION:

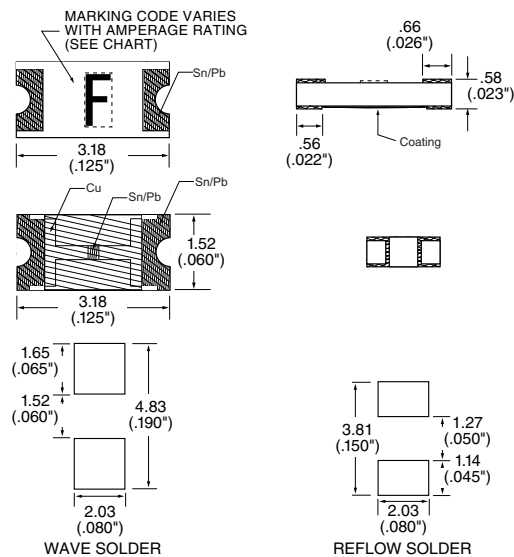
| Catalog Number | Ampere Rating | Marking Code | Voltage Rating | Nominal Resistance Cold Ohms ¹ | Melting I ² t (A ² Sec.) ² |
|----------------|---------------|--------------|----------------|---|---|
| 0433.125 | .125 | B | 125 | 3.45 | 0.00040 |
| 0433.200 | .200 | C | 125 | 0.938 | 0.00055 |
| 0433.250 | .250 | D | 125 | 0.625 | 0.0010 |
| 0433.375 | .375 | E | 125 | 0.375 | 0.0028 |
| 0433.500 | .50 | F | 63 | 0.2405 | 0.0060 |
| 0433.600 | .60 | .6 | 63 | 0.2100 | 0.0131 |
| 0433.750 | .75 | G | 63 | 0.1370 | 0.0170 |
| 0433.800 | .80 | .8 | 63 | 0.1225 | 0.0305 |
| 0433.001. | 1.0 | H | 63 | 0.09950 | 0.0350 |
| 0433 1.25 | 1.25 | J | 63 | 0.07475 | 0.0650 |
| 0433 01.5 | 1.5 | K | 63 | 0.06250 | 0.125 |
| 0433 1.75 | 1.75 | L | 63 | 0.05000 | 0.150 |
| 0433 002. | 2.0 | N | 63 | 0.03975 | 0.230 |
| 0433 02.5 | 2.5 | O | 32 | 0.03065 | 0.50 |
| 0433 003. | 3.0 | P | 32 | 0.02625 | 0.70 |
| 0433 004. | 4.0 | S | 24 | 0.014 | 1.024 |
| 0433 005. | 5.0 | T | 24 | 0.011 | 1.600 |
| 0433 007. | 7.0 | U | 24 | 0.0076 | 3.969 |

¹ Measured at 10% of rated current, 25°C.

² Measured at rated voltage.



Reference Dimensions:



Average Time Current Curves

