

Surface Mount Fuses

Thin-Film Surface Mount

0603 Very Fast-Acting Fuse 431 Series

*.*R.



• For new designs please use the 434 or 467 Series products.

ELECTRICAL CHARACTERISTICS:

% of Ampere Rating	Opening Time at 25°C		
100%	4 hours, Min imum		
200%	5 seconds, Max imum		
300%	0.2 seconds, Max imum		

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 amperes at 32 VAC/VDC 1–5A 35 amperes at 32 VAC/VDC

ENVIRONMENTAL SPECIFICATIONS:

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

Vibration: Withstands 10-55 HZ per MIL-STD-202F, Method 201A and 10-2000 HZ at 20 G's per MIL-STD-202F, Method 204D, Condition D.

Insulation Resistance (After Opening):

Greater than 500,000 ohms.

Resistance To Soldering Heat: Withstands 60 seconds above

200°C up to 260°C, maximum.

Thermal Shock: Withstands 5 cycles of -50°C to 125°C.

PHYSICAL SPECIFICATIONS:

Materials: Body: Epoxy Substrate

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

Cover Coat: Conformal Coating

Soldering Parameters:

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

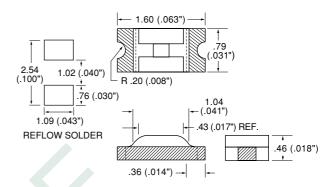
ORDERING INFORMATION:

For New Designs Use 434 or 467 Series.				
Catalog Number	Ampere Rating	Voltage Rating	Nominal Resistance Cold Ohm ¹	Melting I ² t (A ² Sec.)
431 .250	0.25		0.375	0.0030
431 .375	0.375		0.265	0.0053
431 .500	0.5	32	0.193	0.0087
431 .750	0.75	32	0.114	0.0171
431 001	1		0.072	0.0210
431 01.5	1.5	32	0.048	0.0526
431 002	2		0.036	0.104
431 02.5	2.5	32	0.028	0.175
431 003			0.023	0.198
431 03.5	3.5	32	0.019	0.265
431 004	4	32	0.017	0.352
431 005	5	32	0.013	1.600

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



Reference Dimensions:



Average Time Current Curves

