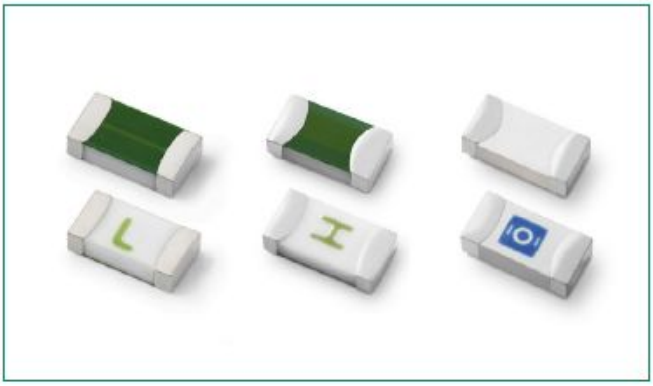
Surface Mount Fuses

Ceramic Fuse > 437A Series



The 437A Series AECQ-Compliant fuses are specifically tested to cater to secondary circuit protection needs of compact auto-electronics applications.

The general design ensures excellent temperature stability and performance reliability. In addition to this, the high I²t values typical of the Littelfuse Ceramic Fuse family ensure high inrush current withstand capability.

- Operating Temperature from -55ºC to +150ºC
- 100% Lead-free, Halogen-Free and RoHS compliant
- Meets Littelfuse's automotive qualifications*
- Fast response to faulty current to ensure over-current protection for sensitive electronic components

* - Largely based on Littelfuse internal AEC-Q200 test plan.

Agency Approvals

AGENCY	AGENCY FILE NUMBER	AMPERE RANGE
c UL us	E10480	0.500A − 8A
SP	29862	0.500A − 8A

Electrical Characteristics for Series

% of Ampere Rating	Ampere Rating	Opening Time at 25ºC
100%	0.500A − 8A	4 hours, Minimum
250%	0.750A − 8A	5 seconds, Maximum
350%	0.750A − 8A	1 second, Maximum
	0.500A	5 seconds, Maximum

Applications

- Li-ion Battery
- LED Lighting
- Automotive Navigation System
- TFT Display
- Battery Management System (BMS)
- Clusters

Additional Information

Datasheet | **Resources** | **Samples**

Electrical Specifications by Item

Ampere Rating (A)	Amp Code	Max. Voltage Rating (V)	Interrupting Rating [1]	Nominal Resistance (Ohms) [2]	Nominal Melting I²t (A²Sec.) [3]	Nominal Voltage Drop At Rated Current (V) [4]	Nominal Power Dissipation At Rated Current (W)	Agency Approvals	
500mA	.500	63	50A @ 63VAC/DC	0.908	0.018	0.52	0.260	x	x
750mA	.750	63	50A @ 63VAC/DC 100A @ 63VDC	0.600	0.064	0.45	0.338	x	x
1A	001.	63	50A @ 63VAC/DC	0.420	0.100	0.41	0.410	x	x
1.25A	1.25	63		0.318	0.256	0.40	0.500	x	x
1.5A	001.5	63		0.209	0.324	0.39	0.585	x	x
1.75A	1.75	63		0.071	0.075	0.27	0.473	x	x
2A	002.	63		0.062	0.144	0.20	0.400	x	x
2.5A	02.5	32	50A @ 32VAC/35VDC	0.043	0.441	0.15	0.375	x	x
3A	003.	32		0.035	0.506	0.14	0.420	x	x
3.5A	03.5	32		0.027	0.777	0.13	0.455	x	x
4A	004.	32		0.022	1.024	0.13	0.520	x	x
5A	005.	32		0.0159	2.30	0.13	0.650	x	x
7A	007.	32		0.0100	5.02	0.13	0.910	x	x
8A	008.	32		0.008	7.23	0.13	1.040	x	x

Notes:

1. AC Interrupting Rating tested at rated voltage with unity power factor. DC Interrupting Rating tested at rated voltage with time constant < 0.8 msec.
2. Nominal Resistance measured with < 10% rated current.
3. Nominal Melting I²t measured at 1 msec. opening time.
4. Nominal Voltage Drop measured at rated current after temperature has stabilized.

Devices designed to carry rated current for 4 hours minimum. It is recommended that devices be operated continuously at no more than 80% rated current. See "Temperature Re-rating Curve"for additional re-rating information. Devices designed to be mounted with marking code facing up.