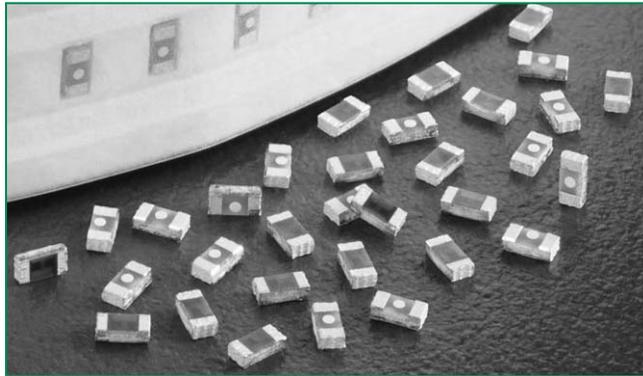


RoHS **435 Series Fuse**



Description

The 435 series are fast-acting surface mount thin film fuses. Their ultra-small size (0402 size) make them ideal for secondary protection of circuits used in space constrained applications such as hand-held portable electronic devices.

This series is 100% lead-free and meet the requirements of the RoHS directive. New Halide Free 435 series fuses are available, orderable using the "HF" suffix. See Part Numbering section for additional information.

Features

- 35A interrupt rating at 32VDC
- Small size with current ratings of 0.25 to 5.0 amperes
- RoHS compliant and lead-free
- Maximum protection of sensitive circuits as fuses are designed to open consistently in <5sec at 200% overload.
- Enhanced Breaking Capacity, High I²t

Agency Approvals

Agency	Agency File Number	Ampere Range
	E10480	0.250 - 5.0A
	029862_0_000	0.250 - 5.0A

Electrical Characteristics for Series

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

Applications

Secondary protection for space constrained applications such as:

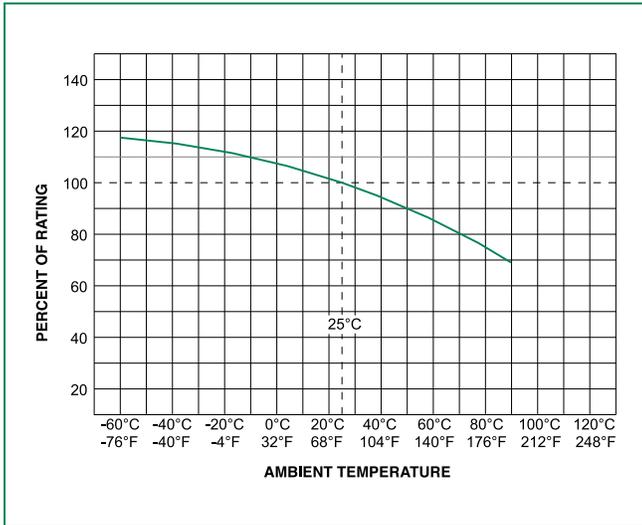
- Cell phones
- Battery packs
- Digital cameras
- DVD players
- Hard disk drives.

Electrical Specifications by Item

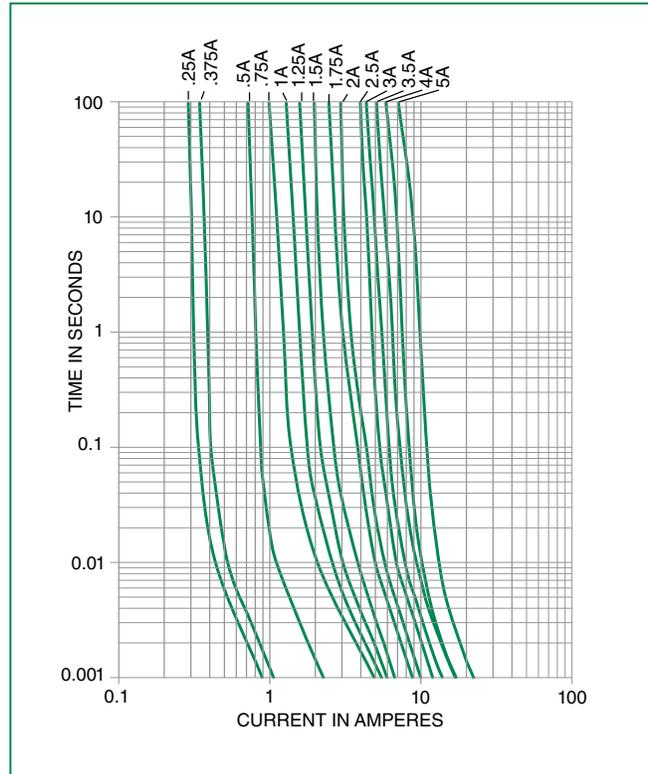
Ampere Rating (A)	Amp Code	Max Voltage Rating (V)	Interrupting Rating	Nominal Cold Resistance (Ohms)	Nominal Melting I ² t (A ² sec)	Nom Voltage Drop (mV)	Nom Power Dissipation (W)	Agency Approvals	
0.250	.250	32	35A @32V DC	0.400	0.0025	110.53	0.027635	x	x
0.375	.375	32		0.1930	0.0035	84.64	0.03174	x	x
0.500	.500	32		0.1600	0.0053	93.35	0.04668	x	x
0.750	.750	32		0.1050	0.0120	101.84	0.07638	x	x
1.00	001.	32		0.0730	0.0200	87.45	0.08745	x	x
1.25	1.25	32		0.0600	0.0350	96.37	0.12046	x	x
1.50	01.5	32		0.0470	0.0560	86.70	0.13005	x	x
1.75	1.75	32		0.0390	0.0750	81.13	0.14198	x	x
2.00	002.	32		0.0300	0.1000	70.62	0.14120	x	x
2.50	02.5	32		0.0185	0.1560	55.25	0.13813	x	x
3.00	003.	32		0.0165	0.2032	60.58	0.18740	x	x
3.50	03.5	32		0.0135	0.3017	57.84	0.20244	x	x
4.00	004.	32		0.0115	0.3084	57.00	0.22800	x	x
5.00	005.	32		0.0085	0.5310	52.44	0.26220	x	x

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

Temperature Derating Curve



Average Time Current Curves



Soldering Parameters - Wave Soldering

Reflow Condition		Pb – Free assembly
Pre Heat	- Temperature Min ($T_{s(min)}$)	150°C
	- Temperature Max ($T_{s(max)}$)	200°C
	- Time (Min to Max) (t_s)	60 – 180 secs
Average ramp up rate (Liquidus Temp (T_L) to peak)		5°C/second max
$T_{s(max)}$ to T_L - Ramp-up Rate		5°C/second max
Reflow	- Temperature (T_L) (Liquidus)	217°C
	- Temperature (t_L)	60 – 150 seconds
Peak Temperature (T_p)		250 ^{+0/-5} °C
Time within 5°C of actual peak Temperature (t_p)		20 – 40 seconds
Ramp-down Rate		5°C/second max
Time 25°C to peak Temperature (T_p)		8 minutes Max.
Do not exceed		260°C

