Surface Mount Fuses

Thin Film > 1206 Size > Very Fast Acting > 433 Series

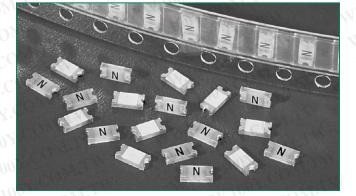
433 Series Fuse

勝 特 力 材 料 886-3-5753170 胜特力电子(上海) 86-21-34970699 胜特力电子(深圳) 86-755-83298787

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Description

The 433 series fast-acting surface mount fuse series is a small (1206 size) thin-film device designed for secondary protection of circuits used in space constrained applications such as hand-held portable electronic devices.

For RoHS compliant and lead-free design, please refer to the Littelfuse 466 series thin film fuse. For new designs of 7 amp please refer to Littelfuse 429 series thin film fuse.

Agency Approvals

Agency	Agency File Number	Ampere Range	
LR ®	E10480	125mA - 5A	
® •	LR29862	125mA - 5A	

Features

- 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 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

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Electrical Specifications by Item

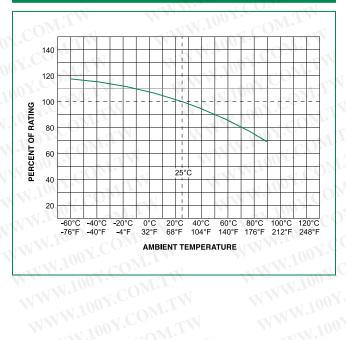
					Agency Approvals		
Ampere Rating (A)	Amp Code	Voltage Rating Interrupting Resistance Mel		Nominal Melting I ² t (A ² sec)	Agency A	(I)®	
0.125	.125	125	Mir	3.45000	0.00040	Х	Х
0.200	.200	125	F04 @40F \/ 40/D0	0.93800	0.00055	X	Х
0.250	.250	125	50A @125 V AC/DC	0.62500	0.00100	X	Х
0.375	.375	125		0.37500	0.00280	X	X
0.50	.500	63	TI	0.24050	0.00600	X	Х
0.60	.600	63		0.21000	0.01310	х	X
0.75	.750	63		0.13700	0.01700	~ X	Х
0.80	.800	63		0.12250	0.03050	X	X
1.00	001.	63	50A @63 V AC/DC	0.09950	0.03500	X	X
1.25	1.25	63		0.07475	0.06500	X	X
1.50	01.5	63		0.06250	0.12500	X	X
1.75	1.75	63		0.05000	0.15000	x	X
2.00	02.0	63	1007.	0.03975	0.23000	x	X
2.50	02.5	32	50A @32 V AC/DC	0.03065	0.50000	X.	X
3.00	03.0	32	SUA WSZ V AC/DC	0.02625	0.70000	X	X
4.00	04.0	24	50A @24 V AC/DC	0.01400	1.0240	X	X
5.00	05.0	24	30A @24 V AC/DC	0.01100	1.6000	x	X

¹ Measured at 10% of rated current 25°C

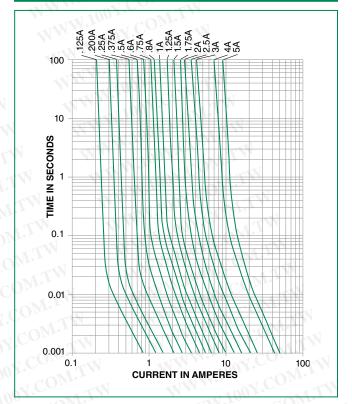
^{2.} Measured at rated voltage.



Temperature Rerating Curve



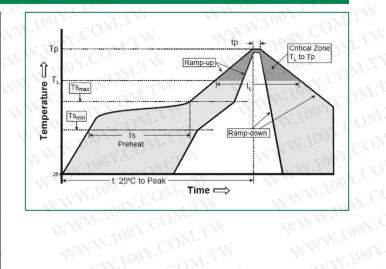
Average Time Current Curves



Soldering Parameters - Wave Soldering

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Reflow Co	ndition	Pb – Free assembly	
	-Temperature Min (T _{s(min)})	150°C	
Pre Heat	-Temperature Max (T _{s(max)})	200°C	
	-Time (Min to Max) (t _s)	60 – 180 secs	
Average ra	amp up rate (Liquidus Temp k	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	
PeakTemp	erature (T _P)	250 ^{+0/-5} °C	
Time with Temperatu	in 5°C of actual peak ure (t _p)	20 - 40 seconds	
Ramp-dov	vn Rate	5°C/second max	
Time 25°C	to peakTemperature (T _P)	8 minutes Max.	
Do not exc	ceed	260°C	



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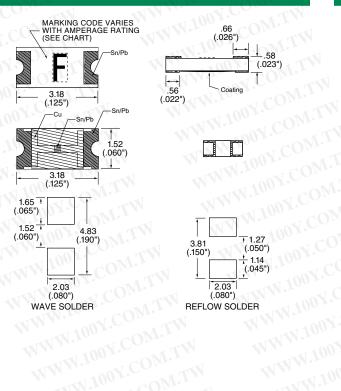


Product Characteristics

Materials	Body: Epoxy Substrate Terminations: 95% Tin / 5% Lead over Nickel over Copper Element Cover Coat: Conformal Coating		
Operating Temperature	- 55°C to 90°C. Consult temperature rerating curve chart.		
Thermal Shock	Withstands 5 cycles of – 55°C to 125°C		

Humidity	MIL-STD-202F Method 103B Condition D		
Vibration	Per MIL-STD-202F, Method 201A		
Insulation Resistance (After Opening)	Greater than 10,000 ohms.		
Resistance to Soldering Heat	Withstands 60 seconds above 200°C and up to 260°C, maximum		

Dimensions

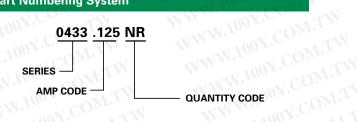


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Part Marking System

Nagara and
Marking Code
В
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Part Numbering System



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Packaging

Packaging Option	Packaging Specification	Quantity	Quantity & Packaging Code
Tape & Reel – 8mm tape	EIA RS-481-1 (IEC 286, part 3)	5000	NA COM
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