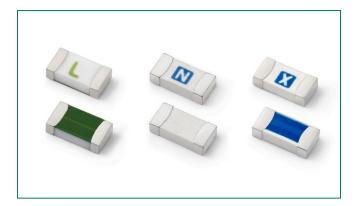


437 Series - 1206 Fast-Acting Fuse





Agency Approvals

AGENCY	AGENCY FILE NUMBER	AMPERE RANGE	
c '91 1 us	E10480	0.250A ~ 8A	
⊕ ;	29862	0.250A ~ 8A	

Electrical Characteristics for Series

% of Ampere Rating	Ampere Rating	OpeningTime at 25°C	
100%	250mA - 8A 4 hours, Minimum		
250%	750mA - 8A	5 seconds, Maximum	
350%	250mA -500mA	5 seconds, Maximum	
350%	750mA - 8A	1 second, Maximum	

Description

This 100% Lead-free, RoHS compliant and Halogen-free fuse series has been designed specifically to provide over current protection to circuits that see high working ambient temperatures (up to 150°C).

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.

Features

- Operating Temperature from -55°C to +150°C
- 100% Lead-free, Halogen-Free and RoHS compliant
- · Suitable for both leaded and lead-free reflow / wave soldering

Applications

- LCD Displays
- Servers
- Printers

- Scanners
- Data Modems

Additional Information







Resources



Samples

Electrical Specifications by Item

Ampere	Ampere Max.			Nominal Nomi	Nominal	Nominal Voltage	Nominal Power	Agency Approvals	
Rating (A)	Amp	Voltage Rating (V)	Interrupting Rating ¹	Resistance (Ohms) ²		Drop At Rated Current (V) ⁴	Dissipation At Rated Current (W)	c FL °us	⊕ ;
0.250	.250	125	50 A @ 125 V AC/DC	2.290	0.003	0.78	0.195	Х	Х
0.375	.375	125	50 A @ 125 V AC/DC	1.330	0.010	0.60	0.225	Х	X
0.500	.500	63		0.908	0.018	0.52	0.260	Х	X
0.750	.750	63		0.665	0.064	0.45	0.338	Х	Х
1.00	001.	63		0.420	0.100	0.41	0.410	Х	Х
1.25	1.25	63	50 A @ 63 V AC/DC	0.318	0.256	0.40	0.500	Х	Х
1.50	01.5	63		0.209	0.324	0.39	0.585	X	Χ
1.75	1.75	63		0.071	0.075	0.27	0.473	Х	Х
2.00	002.	63		0.058	0.225	0.20	0.400	Х	Х
2.50	02.5	32		0.043	0.441	0.15	0.375	Х	Х
3.00	003.	32	50 A @ 32 V AC/35 V DC	0.033	0.506	0.14	0.420	Х	Χ
3.50	03.5	32		0.027	0.777	0.13	0.455	Х	Х
4.00	004.	32		0.022	1.024	0.13	0.520	Х	Х
5.00	005.	32		0.0159	2.30	0.13	0.650	Х	X
7.00	007.	32		0.0100	5.02	0.13	0.910	Х	Х
8.00	008.	32		0.008	7.23	0.13	1.040	х	X

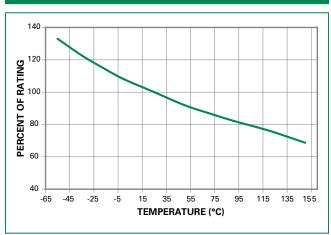
- 1. AC Interrupting Rating tested at rated voltage with unity power factor. DC Interrupting Rating tested at rated voltage with time constant < 0.8 msec.
- 2. Nominal Resistance measured with < 10% rated current.
- 3. Contact Littelfuse if application transient surges are less than 1 ms.
- 4. Nominal 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.







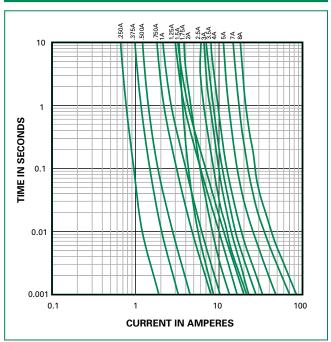
Note:

1. Re-rating depicted in this curve is in addition to the standard re-rating of 20% for continuous operation.

Example:

For continuous operation at 75 degrees celsius, the fuse should be rerated as follows: $I=(0.80)(0.85)I_{RAT}=(0.68)I_{RAT}$

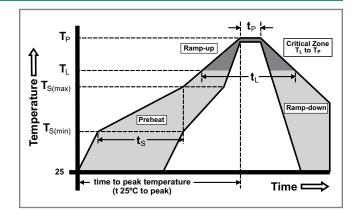




Soldering Parameters

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 seconds
Average R (T _L) to pea	amp-up Rate (LiquidusTemp k)	3°C/second max.
T _{S(max)} to T _L - Ramp-up Rate		5°C/second max.
D (1	-Temperature (T _L) (Liquidus)	217°C
Reflow	-Temperature (t _L)	60 – 150 seconds
PeakTemp	erature (T _P)	260+0/-5 °C
Time with Temperatu	in 5°C of actual peak ıre (t _p)	10 – 30 seconds
Ramp-down Rate		6°C/second max.
Time 25°C	to peakTemperature (T _P)	8 minutes max.
Do not exc	ceed	260°C

°C, 10 seconds max.	Wave Soldering
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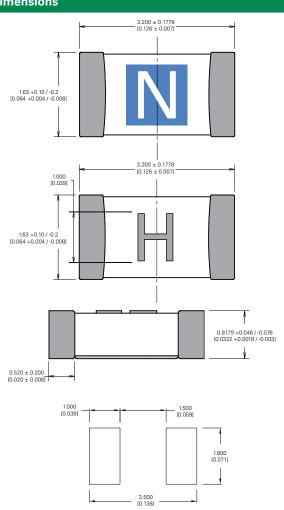


Product Characteristics

Materials	Body: Advanced Ceramic Terminations: Ag / Ni / Sn (100% Lead-free) Element Cover Coating: Ceramic/Lead-free Glass	
Moisture Sensitivity Level IPC/JEDEC J-STD-020, Level 1		
Solderability	IPC/EIC/JEDEC J-STD-002, Condition B	
Humidity Test	MIL-STD-202, Method 103, Condition D	
Resistance to Solder Heat MIL-STD-202, Method 210, Condition E		
Moisture Resistance	MIL-STD-202, Method 106	

Thermal Shock	MIL-STD-202, Method 107, Condition B	
Mechanical Shock	MIL-STD-202, Method 213, Condition A	
Vibration	MIL-STD-202, Method 201	
Vibration, High Frequency	MIL-STD-202, Method 204, Condition D	
Dissolution of Metallization	IPC/EIC/JEDEC J-STD-002, Condition D	
Terminal Strength	IEC 60127-4	

Dimensions

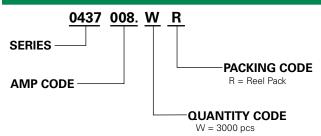


Part Marking System

Amp Code Marking Code	Amp
.250 D	00
.375 E	02
.500 F	00
.750 G	03
001. H	00
1.25 J	00
01.5 K	0
1.75 L	00

Amp Code	Marking Code
002.	N
02.5	0
003.	P
03.5	R
004.	S
005.	
007.	W
008.	X

Part Numbering System



Packaging

Packaging	Packaging	Quantity	Quantity &
Option	Specification		Packaging Code
8mm Tape and Reel	EIA-481, IEC 60286-3	3000	WR

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