429 Series 1206 Fast-Acting Fuse



Agency A	pprovals	
AGENCY	AGENCY FILE NUMBER	AMPERE RANGE
91	E10480	7A
(Sft)	29862	7A

Electrical Charac	ectrical Characteristics for Series	
% of Ampere Rating	OpeningTime at 25°C	
100%	4 hours, Minimum	
200%	5 sec., Maximum	
300%	0.2 sec., Maximum	

Description

The 429 Series Fast-Acting SMF is a small (1206 size) thinfilm device designed for secondary protection of circuits used in space constrained applications such as hand-held portable electronic devices.

This series is Halogen-Free, Lead-Free and meets the requirements of the RoHS directive.

Features

- RoHS compliant and Lead-Free 7A device available-add 'L' suffix to part number.
- For new designs up to 5A please consult the 433 or 466 Series

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• Halogen-Free 7A device available-add 'HF' suffix to the part number

Applications

Secondary protection for space constrained applications such as:

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

Datasheet





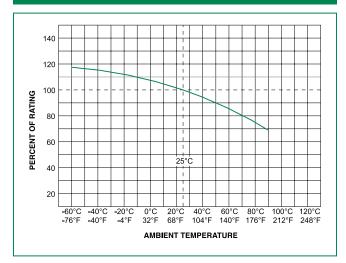
Electrica	l Specifica	tions by Item					
Ampere Rating (A)	Amp Code	Max Voltage Rating (V)	Interrupting Rating	Nominal Cold Resistance (Ohms)	Nominal Melting I²t (A²sec)		ency ovals
7.00	007.	24	35A @24VAC/VDC	0.009	4.900	х	х

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

2. Measured at rated voltage.



Temperature Re-rating Curve



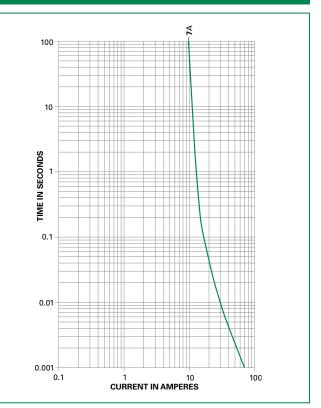
Note:

1. Rerating depicted in this curve is in addition to the standard derating of 25% for continuous operation.

Example:

- For continuous operation at 70 degrees celsius, the fuse should be derated s follows: I = (0.75)(0.80)|_{RAT} = (0.60)| $_{RAT}$
- The temperature derating curve represents the nominal conditions. For questions about temperature derating curve, please consult Littelfuse technical support for assistance.

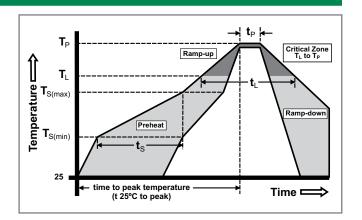
Average Time Current Curves



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 secs
Average ra (T _L) to pea	amp up rate (LiquidusTemp k	5°C/second max
$T_{S(max)}$ to T_{I}	- Ramp-up Rate	5°C/second max
Reflow	-Temperature (T _L) (Liquidus)	217°C
nellow	-Temperature (t _L)	60 – 150 seconds
PeakTemp	erature (T _P)	250 ^{+0/-5} °C
Time with Temperatu	in 5°C of actual peak ıre (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

Wave Soldering	260°C, 10 seconds max.





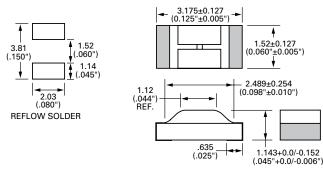
Product Characteristics

Materials	Body: Epoxy Substrate Terminations, RoHS Compliant Device (429L): 100% Tin over Nickel over Copper Element Cover Coat: Conformal Coating NOTE: Do not use alcohol-based cleaners or solvents with 429 Series Thin-Film Fuses as it may damage the coating.
Operating Temperature	– 55°C to 90°C. Consult temperature re-rating chart. For operation above 90°C contact Littelfuse.
Thermal Shock	Withstands 5 cycles of – 55°C to 125°C

Humidity	MIL-STD-202, Method 103 Condition D
Vibration	Withstands 10 – 55 Hz per MIL- STD-202, Method 201 and 10-2000 Hz at 20 g's per MIL-STD-202, Method 204, Condition D.
Insulation Resistance (After Opening)	Greater than 10,000 ohms
Resistance to Soldering Heat	MIL-STD-202, Method 210, Condition D

Dimensions

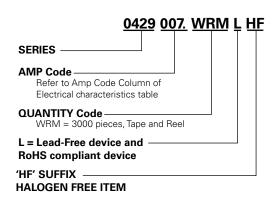
RECOMMENDED PAD LAYOUTS



Part Marking System

Series	Marking Code
429L	7

Part Numbering System



Packaging				
	Packaging Option	Packaging Specification	Quantity	Quantity & Packaging Code
	Tape & Reel – 8mm tape	EIA-481 Rev. D (IEC 60286, part 3)	3000	WRM

单击下面可查看定价,库存,交付和生命周期等信息

>>Littelfuse(美国力特)