

Surface Mount Fuses NANO^{2®} > 458 Series 1206 Size Inrush Withstand Fuse

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宣间 0430008.DK 供应简

ROHS HF 458 Series Fuse



Agency A	Approvals	
AGENCY	AGENCY FILE NUMBER	AMPERE RANGE
c AN us	E10480	1A-10A

Electrical Characteristics for Series

% of Ampere Rating	OpeningTime
100%	4 hours, Minimum
250%	5 seconds, Maximum

Description

The 458 Series Nano^{2®} Fuse is an ultra-small, square surface mount fuse designed to support a variety of space constrained overcurrent protection applications. Offering a 1206 size footprint, it is the smallest wire-in-air type surface mount fuse offered by Littelfuse.

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Features

- Surface Mount Fuse
- Fully compatible with lead free soldering profiles
- **RoHS** Compliant •
 - Halogen Free
- Available in ratings of 1 to 10 Amperes

Applications

- Notebook PC
- LCD backlight inverter
- LCD Panel
- DC/DC converter .
- Battery Pack

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- Car Navigation System
- Network Equipment
- **Telecom Equipment**
- **Electronic Signage** •
- Portable Consumer Electronics

Electrical Specifications by Item

Ampere Rating (A)	Amp Code	Marking	Max Voltage Rating (V)	Interrupting Rating	Nominal Cold Resistance (Ohms)	Nominal Melting I²t (A²sec)	Agency Approvals
1.0	001.	1		150	0.180	.168	х
1.25	1.25	1.25	2-51		0.125	.313	Х
1.5	01.5	1.5	W.DZS		0.099	.548	Х
1.6	01.6	1.6	M.n.e.		0.092	.562	х
2	002.	2			0.0695	.952	х
2.5	02.5	2.5			0.06	1.408	Х
3	003.	3			0.049	2.289	X
3.15	3.15	3.15	63V	50A @63Vdc	0.045	2.457	x x x
3.5	03.5	3.5			0.0375	4.00	х
4	004.	4			0.032	4.832	Х
5	005.	5			0.027	7.938	Х
6.3	06.3	6.3	LTD		0.0192	14.37	Х
7	007.	7	W.DZSI		0.0175	20.48	Х
8	008.	8	West Street		0.0058	9.00	Х
10.0	010.	10			0.00465	15.0	Х

Notes:

1. I²t values stated for 8 msec opening time

2. Cold resistance measured at less than 10% of rated current at 25°C.

3. Agency Approval Table Key: X=Approved or Certified, P=Pending and Blank=Not Approved

4. Have special electrical characteristic needs? Contact Littelfuse to learn more about application specific options.

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Specifications are subject to change without notice. Please refer to www.littelfuse.com/series/458.html for current information.

lf.dzsc.com



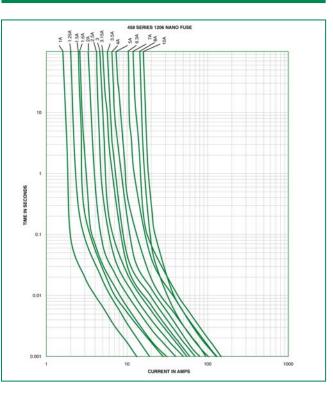
查词"0458008.DR"供应商

Temperature Rerating Curve 140 120 PERCENT OF RATING 100 80 60 25°Ċ 40 -20 1 0°C 20°C 40°C 60°C 80°C 100°C 120°C 32°F 68°F 104°F 140°F 176°F 212°F 248°F -60°C -40°C -76°F -40°F -20°C -4°F AMBIENT TEMPERATURE

Note:

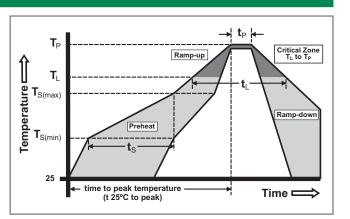
1. Derating depicted in this curve is in addition to the standard derating of 25% for continuous operation.

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 – 120 secs
Average ra (T _L) to pea	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
nellow	-Temperature (t _L)	60 – 90 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





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Product Characteristics

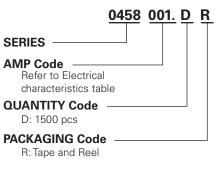
Materials	Body: Ceramic Cap: Gold Plated Brass
Product Marking	Body: Current Rating (Refer to Electrical Characteristic table)
Insulation Resistance (after Opening)	MIL-STD-202, Method 302, Test Condition A (10,000 ohms, Minimum)
Solderability	MIL-STD-202, Method 208
Resistance to Soldering Heat	MIL-STD-202, Method 210, Test Condition B (10 sec at 260°C)
Moisture Sensitivity Level	Level 1

Operating Temperature	–55°C to 125°C with proper derating
Thermal Shock	MIL-STD-202F, Method 107G, Test Condition B (5 cycles -65°C to +125°C)
Vibration	MIL-STD-202F, Method 201A (10-55 Hz)
Moisture Resistance	MIL-STD-202, Method 106, High Humidity (90-98%RH), Heat (65°C)
Salt Spray	MIL-STD-202F, Method 101D, Test Condition B
Shock	MIL-STD-202, Method 213, Test Condition I (100 G's peak for 6 milliseconds)

Part Numbering System

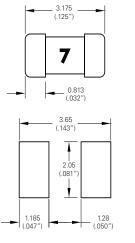
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Surface Mount Fuses



Example: 1.5 amp product is 0458 01.5 D R (1 amp

Dimensions



Recommended Pad Layout

product shown above).

Packaging			
Packaging Option	Packaging Specification	Quantity	Quantity & Packaging Code
24mm Tape and Reel	EIA-RS 481-1	1500	DR

1.575 (.062″)

1

1.575 (.062″)

1

