Surface Mount Fuses



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ROHS HF 458 Series Fuse





Agency Approvals

AGENCY	AGENCY FILE NUMBER	AMPERE RANGE
c FL °us	E10480	1A-10A

Electrical Characteristics for Series

% of Ampere Rating	Opening Time		
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.

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

Electrical Specifications by Item

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	ZSC.COM
1.0	001.	1		1577	0.180	.168	Х	
1.25	1.25	1.25	z 755	D ha	0.125	.313	Х	
1.5	01.5	1.5	W.BZS	COM	0.099	.548	Х	
1.6	01.6	1.6	M.n.		0.092	.562	х	
2	002.	2			0.0695	.952	×	
2.5	02.5	2.5			0.06	1.408	×	
3	003.	3			0.049	2.289	×	
3.15	3.15	3.15	63V	50A @63Vdc	0.045	2.457	X	
3.5	03.5	3.5			0.0375	4.00	×	
4	004.	4			0.032	4.832	×	
5	005.	5		Z. F03	0.027	7.938	Х	
6.3	06.3	6.3	上行了	COM	0.0192	14.37	×	
7	007.	7	W.DZS	3.60	0.0175	20.48	×	
8	008.	8	44.5		0.0058	9.00	Х	
10.0	010.	10			0.00465	15.0	Х	

Notes:

df.dzsc.com

- 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
- $4. \ Have \ special \ electrical \ characteristic \ needs? \ Contact \ Little fuse \ to \ learn \ more \ about \ application \ specific \ options.$

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

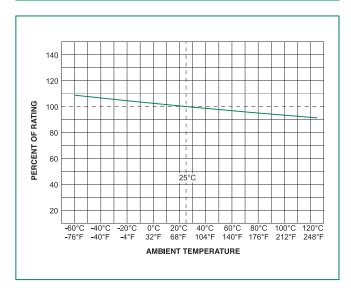


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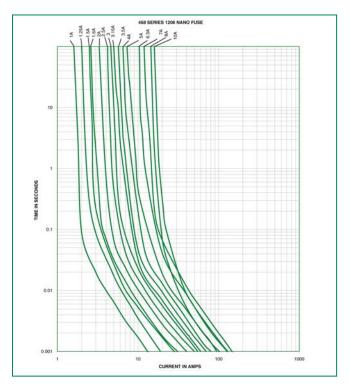
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Temperature Rerating Curve



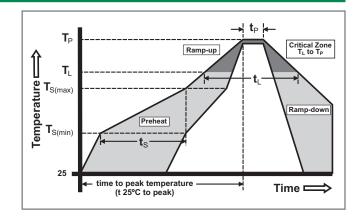
1. Derating depicted in this curve is in addition to the standard derating of 25% for continuous operation.

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 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	
D (1	-Temperature (T _L) (Liquidus)	217°C	
Reflow	-Temperature (t _L)	60 - 90 seconds	
PeakTemp	erature (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 peakTemperature (T _P)		8 minutes Max.	
Do not exceed		260°C	



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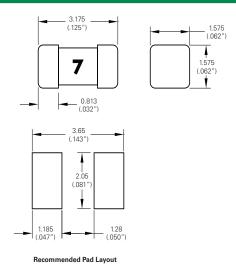
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Product Characteristics

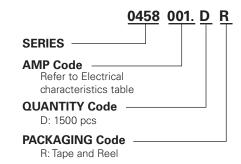
Materials	Body: Ceramic Cap: Gold Plated Brass		
Product Marking	Body: Current Rating (Refer to Electrical Characteristic table)		
Insulation Resistance (after Opening)	MIL-STD-202, Method 302, Test Condition A (10,000 ohms, Minimum)		
Solderability	MIL-STD-202, Method 208		
Resistance to Soldering Heat	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	MILSTD-202, Method 106, High Humidity (90-98%RH), Heat (65°C)		
Salt Spray	MIL-STD-202F, Method 101D, Test Condition B		
Shock	MILSTD-202, Method 213, Test Condition I (100 G's peak for 6 milliseconds)		

Dimensions



Part Numbering System



Example: 1.5 amp product is 0458 <u>01.5</u> D R (1 amp product shown above).

Packaging

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



