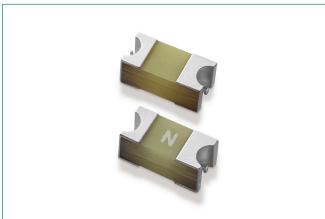
Surface Mount Fuses Thin Film Fuse > 1206 High I2t > 483 Series





Agency Approvals

Agency	Agency File Number	Ampere Range
c FL °us	E10480	0.375 A – 15 A

Electrical Characteristics

% of Ampere Rating	Opening Time
100%	4 Hours, Minimum
250%	5 Seconds, Maximum

Additional Information







Accessories



Description

The 483 series belongs to the family of high-energy SMD fuses, perfect for space constrained applications. It offers the standard Nano Fuse circuit protection capability with a very small 1206 foot print. This product is RoHS compliant, Halogen-Free and 100% Pb-Free with guaranteed operating temperature of up to 125 °C.

Features

- Very small 1206 footprint
- Fast-acting
- Pb-free, RoHS compliant and Halogen-free
- Wide operating temperature range of -55 °C to 125 °C

Benefits

- Single fuse solution for high current application
- Suitable for a wide variety of voltage requirements and applications

Applications

- LED lighting
- LCD/LED TVs
- Notebooks/PCs
- Gaming consoles
- Power supply units
- Telecom systems
- White goods
- Battery charging circuit protection



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Electrical Specifications

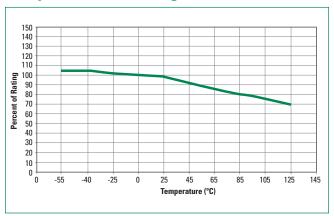
Ampere Rating Amp Code	Max Voltage Rating (V)	Interrupting Rating	Nominal Cold Resistance (Ohms)	Nominal Melting I²t (A² sec.)	Agency Approvals	
					c FL °us	
0.375	0.375	75	50A @ 75VDC/VAC	0.530	0.027	X
0.500	0.500	75		0.380	0.065	Х
0.750	0.750	75		0.235	0.150	Х
1.00	001.	75		0.165	0.310	Х
1.25	1.25	75		0.133	0.550	X
1.50	01.5	75		0.103	0.800	X
2.00	002.	75		0.073	2.000	X
2.50	02.5	65	50A @ 65VDC/VAC	0.061	2.500	X
3.00	003.	65		0.051	4.000	X
3.15	3.15	65		0.048	4.800	Х
3.50	03.5	65	50A @ 65VDC	0.040	6.500	X
4.00	004.	65	50A @ 50VAC	0.036	8.500	Х
5.00	005.	65	50A @ 65VDC	0.027	13.00	Х
6.30	06.3	65	50A @ 32VAC	0.0078	5.000	Х
7.00	007.	32	50A @ 32VDC/VAC	0.0071	6.100	X
8.00	008.	32		0.0057	10.00	X
10.0	010.	32		0.0045	16.00	X
12.0	012.	32		0.0040	25.00	X
15.0	015.	32		0.0030	41.00	X

Note: I2t values stated for 8 msec opening time.



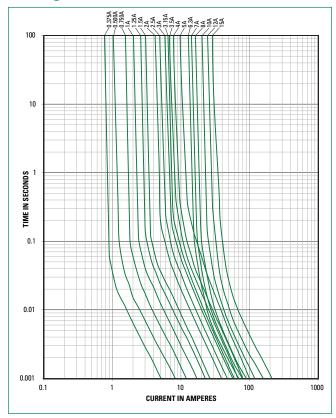
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Temperature Re-rating Curve



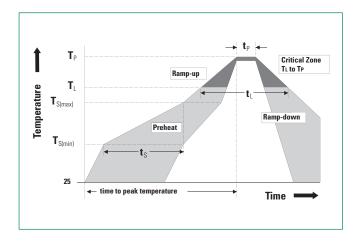
NoteDerating depicted in this curve is in addition to the standard derating of 25% for continuous operation.

Average Time Current Curves



Soldering Perameters

Reflow Condition		Pb – Free assembly	
Pre Heat	-Temperature Min (T _{s(min)})	150 °C	
	-Temperature Max (T _{s(max)})	200 °C	
	-Time (Min to Max) (t _s)	60-180 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.	
Reflow	-Temperature (T _L) (Liquidus)	217 °C	
	-Temperature (t _L)	60-150 secs	
Peak Temperature (T _p)		260+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 peak Temperature (T _p)		8 minutes max.	
Do not excee	ed	260 °C	

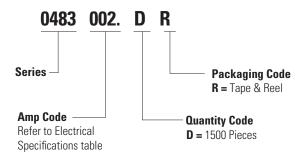


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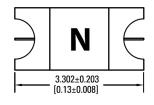
Product Characteristics

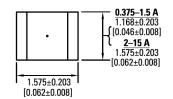
Materials	Body: Epoxy Resin Terminations: Cu/Ni/Sn (100% Pb-free)
Product Marking	Body: Current Rating
Operating Temperature	−55 °C to +125 °C
Solderability	MIL-STD-202
Thermal Shock	MIL-STD-202, Method 107, Test Condition B, 5 cycles, -65 °C to 125 °C, 15 minutes @ each extreme
Mechanical Shock	MIL-STD-202, Method 213B, Test Condition I: De-energized. 100G's peak amplitude, sawtooth wave 6 ms duration, 3 cycles XYZ+xyz = 18 shocks
Vibration	MIL-STD-202, Method 201: 0.03" amplitude, 10–55 Hz in 1 min. 2 hrs. each XYZ = 6 hrs
Moisture Resistance	MIL-STD-202, Method 106, 10 cycles Condition A
Salt Spray	MIL-STD-202, Method 101, Test Condition B (48 hrs)
Resistance to Soldering Heat	Method 210, Test Condition B (10 sec at 260 °C)

Part Numbering System

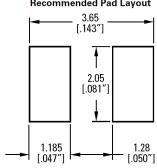


Dimensions mm [inch]





Recommended Pad Layout



Part Marking System

Amp Code	Marking Code
0.375	E
0.500	F
0.750	G
001.	Н
1.25	J
01.5	K
002.	N
02.5	0
003.	P
3.15	В
03.5	С
004.	S
005.	Т
06.3	U
007.	V
008.	Z
010.	10
012.	12
015.	15

Packaging

Packaging Option	Packaging Specification	Quantity	Quantity & Packaging Code	Reel Size
8 mm Tape and Reel	EIA-481	1500	DR	N / A

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