Electrical Specifications by Item

Ampere Rating (A)	Amp Code	Max Voltage Rating (V)	Interrupting Rating	Nominal Cold Resistance (Ohms)	Nominal Melting I ² t (A ² sec)	Agency Approvals					
						c FL °us	(P)	PSE	c (UL) us		Œ
.062	.062	125		5.5000	0.00019	-	Х	-	X	-	-
.080	.080	125		4.0500	0.00033	-	Х	-	X	-	-
.100	.100	125		3.1000	0.00138	-	Х	-	X	-	-
.125	.125	125		1.7000	0.00286	-	Х	-	X	-	-
.160	.160	125		1.2157	0.0048	-	Х	-	X	-	-
.200	.200	125		0.8372	0.0089	-	Х	-	X	-	-
.250	.250	125		0.5765	0.0158	-	Х	-	X	-	-
.315	.315	125	50A @125VAC/VDC	0.3918	0.0311	-	Х	-	X	-	-
.375	.375	125	300A @32VDC	0.4541	0.0442	-	Х	-	X	-	-
.400	.400	125	PSE: 100A @100VAC	0.4233	0.0551	-	Х	-	X	-	-
.500	.500	125		0.3046	0.0824	-	Х	-	X	-	-
.630	.630	125		0.2022	0.1381	-	Χ	-	X	-	-
.750	.750	125		0.1444	0.2143	-	Х	-	X	-	-
.800	.800	125		0.1355	0.2654	-	Х	-	X	-	-
1.00	001.	125		0.0780	0.6029	-	Х	X	X	X	X
1.25	1.25	125		0.0780	0.664	-	Х	X	X	X	X
1.50	01.5	125		0.0630	0.853	-	Х	X	X	-	-
1.60	01.6	125		0.0580	1.060	-	Х	X	X	-	-
2.00	002.	125		0.0367	0.530	-	Х	X	X	X	X
2.50	02.5	125	FOA @10F\/ACA/DC	0.0286	1.029	-	X	X	X	X	X
3.00	003.	125	50A @125VAC/VDC 10.000A @75VDC	0.0227	1.650	-	Х	X	X	-	-
3.15	3.15	125	300A @32VDC	0.0215	1.920	-	Х	X	X	X	X
3.50	03.5	125	PSE: 100A @100VAC	0.0200	2.469	-	Х	X	X	-	-
4.00	004.	125		0.0160	3.152	-	Х	X	X	X	X
5.00	005.	125		0.0125	5.566	-	Х	X	X	X	X
6.30	06.3	125	50A @125VAC/VDC	0.0096	9.170	X	Χ	X	-	-	-
7.00	007.	125	400A @32VDC	0.0090	10.32	X	Х	X	-	X	X
8.00	008.	125	PSE: 100A @100VAC	0.0077	20.23	Х	Х	X	-	X	X
10.0	010.	125	35A @125 VAC/ 50A @125 VDC 400A @32 VDC PSE: 100A @100VAC	0.0056	26.46	×	х	Х	-	Х	х
12.0	012.	65	150A @65VDC	0.0049	47.97	Х	X	-	-	Х	×
15.0	015.	65	100A @65VAC	0.0037	97.82	Х	Х	-	-	-	-
20.0	020.	65	400A @32VDC	0.00244	154	X	-	-	-	Х	Χ

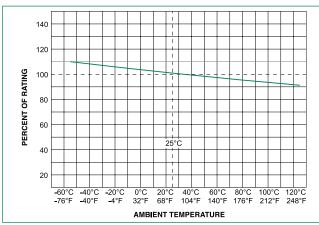
Notes: - I²t calculated at 8ms.

- Resistance is measured at 10% of rated current, 25°C



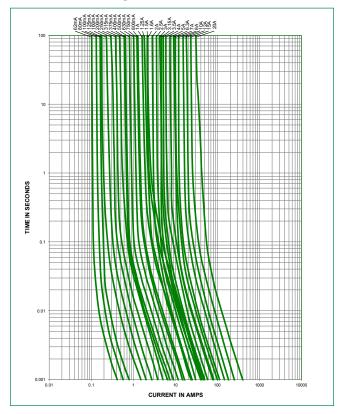
451/453 SeriesVery Fast-Acting Fuse

Temperature Re-rating Curve



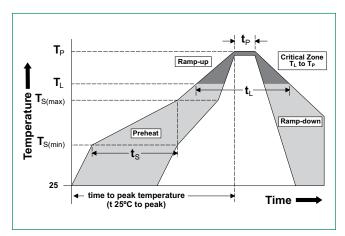
Note: Rerating depicted in this curve is in addition to the standard derating of 25% for continuous operation.

Average Time Current Curves



Soldering Parameters

Reflow Condition			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 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		
nellow	- Temperature (t _L)		60 – 150 seconds		
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 exceed			260°C		
Wave Soldering Parameters 260°C Peak Temperatur			rature, 10 seconds		





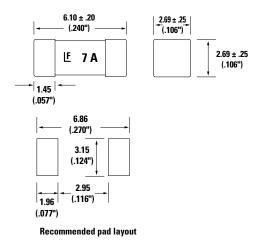
Wave Soldering Parameters

Product Characteristics

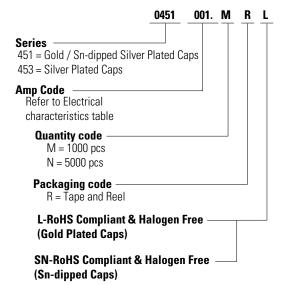
	Body: Ceramic Terminations:			
Materials	Gold-Plated Caps / Sn-dipped Silver Plated Caps (451 RoHS/HF series)			
	Silver-plated Caps (451MR RoHS ratings below 375mA and 453 RoHS Series)			
Product Marking	Brand, Ampere Rating			
Operating Temperature	-55°C to 125°C Level 1, J-STD-020			
Moisture Sensitivity Level				
Solderability	MIL-STD-202, Method 208			
Insulation Resistance (after Opening)	MIL-STD-202, Method 302, Test Condition A (10,000 ohms minimum)			

Thermal Shock	MIL-STD-202, Method 107, Test Condition B, 5 cycles, -65°C / +125°C, 15 minutes @ each extreme			
Mechanical Shock	MIL-STD-202, Method 213, Test I: Deenergized. 100G's pk amplitude, sawtooth wave 6ms duration, 3 cycles XYZ+xyz = 18 shocks			
Vibration	MIL-STD-202, Method 201: 0.03" amplitude, 10-55 Hz in 1 min. 2hrs each XYZ=6hrs			
Moisture Resistance	MIL-STD-202, Method 106, 10 cycles			
Salt Spray	MIL-STD-202, Method 101, Test Condition B (48hrs)			
Resistance to Soldering Heat	MIL-STD-202, Method 210, Test condition B (10 sec at 260°C)			

Dimensions



Part Numbering System



Note: "L" suffix applies to 451 series only

453 series is available only as RoHS compliant version and does not require "L" suffix. Please do not include "L" suffix within 453 series ordering instructions.

Packaging

Packaging Option	Packaging Specification	Quantity	Quantity & Packaging Code		
12mm Tape and Reel	EIA RS-481-2 (IEC 286, part 3)	5000	NR		
12mm Tape and Reel	EIA RS-481-2 (IEC 286, part 3)	1000	MR		

Disclaimer Notice - Littelfuse products are not designed for, and shall not be used for, any purpose (including, without limitation, automotive, military, aerospace, medical, life-saving, life-saving,

