452/454 Series Fuse



Agency Approvals

AGENCY	AGENCY FILE NUMBER	AMPERE RANGE		
91	E10480	0.375A - 12A		
SP.	29862	0.375A - 12A		
PSE	NBK030205-E10480B	1A - 5A		

Electrical Characteristics for Series

% of Ampere Rating	OpeningTime
100%	4 hours, Minimum
200%	1 sec., Min.; 60 sec., Max.
300%	0.2 sec., Min.; 3 sec., Max
800%	0.02 sec., Min.; 0.1 sec., Max.

Electrical Specifications by Item

Description

The NANO^{2®} Slo-Blo[®] fuse has enhanced inrush withstand characteristics over the NANO^{2®} Fast-Acting fuse. The unique time delay feature of this fuse design helps solve the problem of nuisance "opening" by accommodating inrush currents that normally cause a fast-acting fuse to open.

Features

- Small size
- Wide range of current rating available (0.375A to 12A)

temperature range

- Wide operating
- reratingRoHS compliant and Halogen Free

Low temperature

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Applications

- Notebook PC
- LCD/PDPTV
- LCD monitor
- LCD/PDP panel
- LCD backlight inverter
- Portable DVD player
- Power supply
- Networking
- PC server
- Cooling fan system

- Storage system
- Telecom system
- Wireless basestation
- White goods
- Game console
- Office Automation
 equipment
- Battery charging circuit protection
- Industrial equipment

Ampere		Max		Nominal Cold	Nominal	Agency Approvals		
Rating (A)	Amp Code	Rating (V)			Melting I²t (A²sec)	71	()	PS E
0.375	.375	125	50A @ 125 VAC/VDC 300A @ 32 VDC PSE: 100A @ 100 VAC	1.2000	0.101	х	х	
0.500	.500	125		0.7000	0.240	х	х	
0.750	.750	125		0.3600	0.904	x	х	
001.	001.	125		0.2250	1.98	x	x	x
1.50	01.5	125		0.0930	3.65	x	x	x
2.00	002.	125		0.0625	8.20	x	х	x
2.50	02.5	125		0.0450	15.0	x	х	x
3.00	003.	125		0.0340	20.16	x	х	x
3.50	03.5	125		0.0224	26.53	x	x	x
4.00	004.	125		0.0186	34.40	x	х	x
5.00	005.	125		0.0136	53.72	х	х	x
7.00	007.	75	50A @ 72 VAC 50A @ 60 VDC 100A @ 75 VDC	0.0105	123.83	x	x	
8	008.	75		0.0088	137.34	x	х	
12	012.	75		0.0061	260.46	x	x	

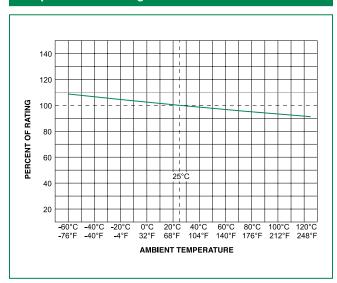
Notes:

- I²t calculated at 8ms.
- Resistance is measured at 10% of rated current, 25°C

Surface Mount Fuses NANO^{2®} > Slo-Blo[®] Fuse > 452/454 Series



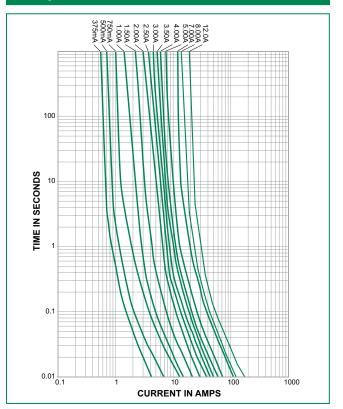
Temperature Re-rating Curve



Note:

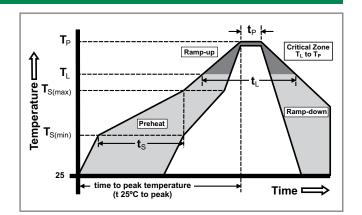
1. Rerating depicted in this curve is in addition to the standard derating of 25% for continuous operation.





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 – 120 secs	
Average ramp up rate (LiquidusTemp (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 – 90 seconds	
PeakTemperature (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 peakTemperature (T _P)	8 minutes max.	
Do not exceed		260°C	
Wave Soldering Parameters		260°C Peak Temperature, 3 seconds max.	



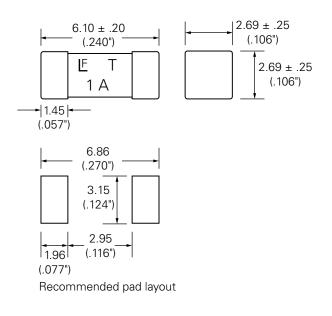


Product Characteristics

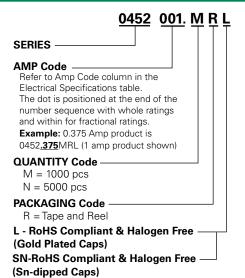
Materials	Body: Ceramic Terminations: Gold-plated Caps / Sn-dipped Silver Plated Caps (452 Series) Silver-plated Caps (454 Series)		
Product Marking	Brand, Ampere Rating		
Operating Temperature	-55°C to 125°C		
Moisture Sensitivity Level	Level 1, J-STD-020		
Solderability	MIL-STD-202, Method 208		
Insulation 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



Notes:

452 series may be ordered as "RoHS and HF (Gold Plated Caps)" ("L" suffix). 454 series is available only as "RoHS and HF" version and does not require "L" suffix. Please do not include "L" suffix within 454 series ordering instructions.

Packaging	Additiona			
Packaging Option	Packaging Specification	Quantity	Quantity & Packaging Code	
12mm Tape and Reel	EIA RS-481-1 (IEC 286, part 3)	5000	NR	Datash 452 Se
12mm Tape and Reel	EIA RS-481-1 (IEC 286, part 3)	1000	MR	

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Datasheet

454 Series

Resources 452 Series



Resources 454 Series



Samples 452 Series



Samples 454 Series

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)