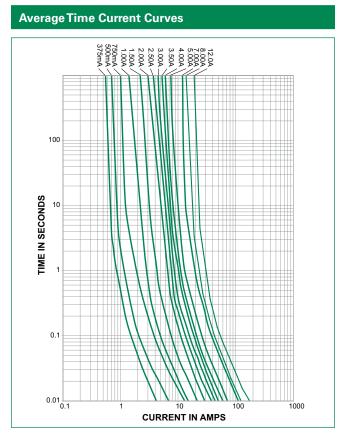


Temperature Re-rating Curve 140 120 Т PERCENT OF RATING 100 Т 80 ÷ ÷ 60 1 25°C 40 -20

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

AMBIENT TEMPERATURE

20°C 40°C 60°C 80°C 100°C 120°C 68°F 104°F 140°F 176°F 212°F 248°F



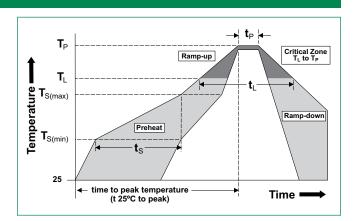
Soldering Parameters

-60°C -40°C -76°F -40°F

-20°C -4°F

0°C 32°F

Reflow Condition		Pb – Free assembly	
Pre Heat	- Temperature Mi	in (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) (Liquidus)	217°C
	- 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 Temperature, 3 seconds max.	





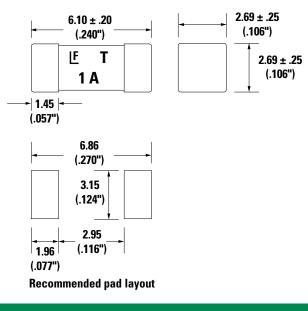
Surface Mount Fuses NANO^{2®} > Slo-Blo[®] Fuse > 452/454 Series

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)	

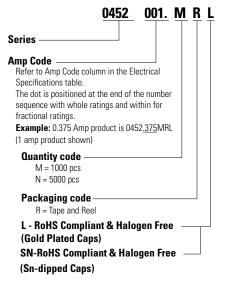
Thermal Shock	MIL-STD-202, Method 107, Test Condition B, 5 cycles, -65°C / +125°C, 15 minutes @ each extreme	
Mechanical Shock	MILSTD-202, Method 213, Test I: Deenergized. 100G's pk amplitude, sawtooth wave 6ms duration, 3 cycles XYZ+xyz = 18 shocks	
Vibration	MIL-STD-202, Method 201: 0.03" amplitude, 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



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

Part Numbering System



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.

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454 Series

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Notes:

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