443E Series Fuse NANO^{2®} > 250V > Slo-Blo® Fuse















Additional Information



Resources





Accessories

Samples

Agency Approvals

Agency	Agency File Number	Ampere Range
(h)	E242325	1.25A
© ^V E	40046623	1.25A
œc	CQC17012176681	1.25A
c FL °us	E10480	1.25A
Œ	-	1.25A

Description

The 443E Series is a Nano^{2®}, 250 V fuse. It is a surface mount Universal Modular Fuse (UMF) that complies with IEC 60127-4. It is RoHS-compliant and fully compatible with lead-free solder alloy and higher temperature profiles associated with lead-free assembly.

Features & Benefits

- 250 VAC/VDC voltage rating with 200 A interrupting rating
- Slo-Blo® Fuse
- RoHS-compliant
- Fully compatible with leadfree solder alloys and higher temperature profiles associated with lead-free assembly
- Avoids nuisance opening due to high inrush and surge current inherent in the system
- Suits high voltage applications requiring high interrupting current

Applications

- AC/DC power adaptor
- Telecom equipment system power
- Portable system built-in AC/ DC converter

Electrical Characteristics

% of Ampere Rating	Ampere Rating	Opening Time at 25°C		
100%	1.25 A	4 hours Minimum		
200%	1.25 A	120 secs Maximum		

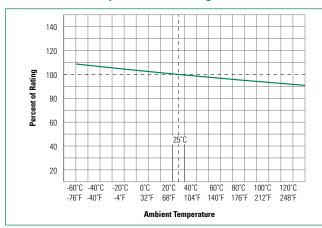
Electrical Specifications by Item

	Ampere	Amp	Max. Voltage	Interrupting Rating	Nominal Cold Resistance ¹	d Nominal Melting I²t	Nominal Voltage	Nominal Power Dissipation at		Agen	cy Appr	oval ³	
Rating (A)	Code	Rating (V)	(AC/DC)	(Ohms)	(A ² Sec.) ²	Drop (mV)	Rated Current (W)	(II)	ØŶE	œ	c 711 ° us	Œ	
	1.25	1.25	250	200A @ 250VAC/ 200A @ 250VDC	0.100	3.97	165	0.456	Х	×	×	х	X

- 1. Nominal Cold Resistance measured at less than 10% of rated current at 23° C.
 2. Nominal Melting I²t is measured at 10 the Ampere Rating (I_n)
 3. Agency Approval Table key: X = Approved or Certified, P = Pending and Blank = Not Approved
- 4. Have special electrical characteristic needs? Contact Littelfuse to learn more about application specific options

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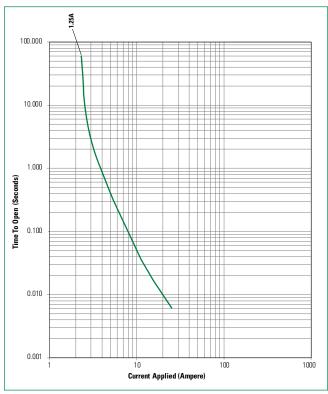
Temperature Re-rating Curve



Note:

Re-rating depicted in this curve is in addition to the standard re-rating of 25% for continuous operation.

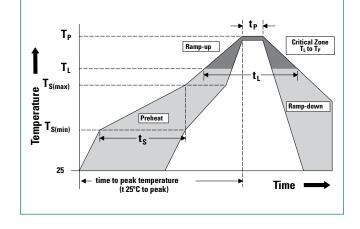
Average Time Current Curves



Soldering Parameters

Reflow Cond	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 seconds	
Average Ran	5° C/second max.		
$T_{S(max)}$ to T_L -	5° C/second max		
Reflow	-Temperature (T _L) (Liquidus)	217° C	
nellow	-Temperature (t _L)	60 – 150 seconds	
Peak Temper	260+0/-5° C		
Time within	20 - 40 seconds		
Ramp-down	5° C/second max		
Time 25°C to	8 minutes max.		
Do not exce	260° C		

260° C Peak Temperature, 3 seconds max.





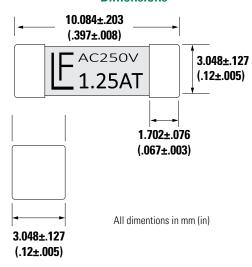
Wave soldering

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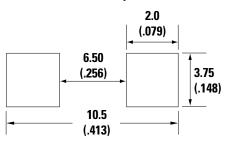
Product Characteristics

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Materials	Body: Ceramic Cap: Silver Plated Brass			
Product Marking	Voltage rating, Ampere rating, T-Characteristic, "T" and Brand			
Temperature Humidity Bias	MIL-STD-202, Method 103, (85° C, 85%RH with 10% hold current)			
Solderability	MIL-STD-202, Method 208 (95% coverage)			
Resistance to Soldering Heat	MIL-STD-202, Method 210			
Pulse Test	IEC 60127-1; 9.5 (25° C +/-5° C, pulse 100% rated current)			
Terminal Strength Test	MIL-STD-202, Method 211, Test Condition A (5N force to the side for 60sec)			
Endurance Test	IEC 60127-1; 9.4 (25° C +/-5° C, 100% rated current for 1 hour, stop current for 15 mins. 100 cycles. Test for voltage drop to determine maximum power disipation)			
Operating Temperature	–55° C to 125° C			
Temperature Cycling	JESDD22 - A104 (-40° C to 125° C)			
High Frequency Vibration	MIL-STD-202, Method 204 (55Hz – 2Hz, 10G)			
Low Temperature Storage	MIL-STD-202, Method 108 (-40° C for 1000 hours)			
High Temperature Storage	MIL-STD-202, Method 108 (125° C for 1000 hours)			
Mechanical Shock	MIL-STD-202, Method 213, (50 G's peak for 11 milliseconds, halfsine waveform/10 – 55 Hz)			
High Temperature Operating Life Test	JESD 22 - A108 (125° C rated current at any voltage = to rated voltage); 1000H duration</th			

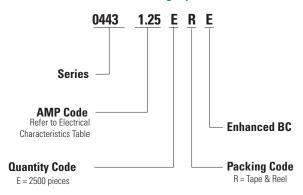
Dimensions



Recommended Pad Layout



Part Numbering System



Packaging

Packaging Option	Form Factor	Packaging Specification	Quantity	Quantity & Packaging Code
24mm Tape and Reel	Surface Mount	EIA-RS 481-2 (IEC 60286-3)	2500	ERE

Disclaimer Notice - Information furnished is believed to be accurate and reliable. However, users should independently evaluate the suitability of and test each product selected for their own applications. Littlefuse products are not designed for, and may not be used in, all applications. Read complete Disclaimer Notice at www.littlefuse.com/disclaimer-electronics.

