

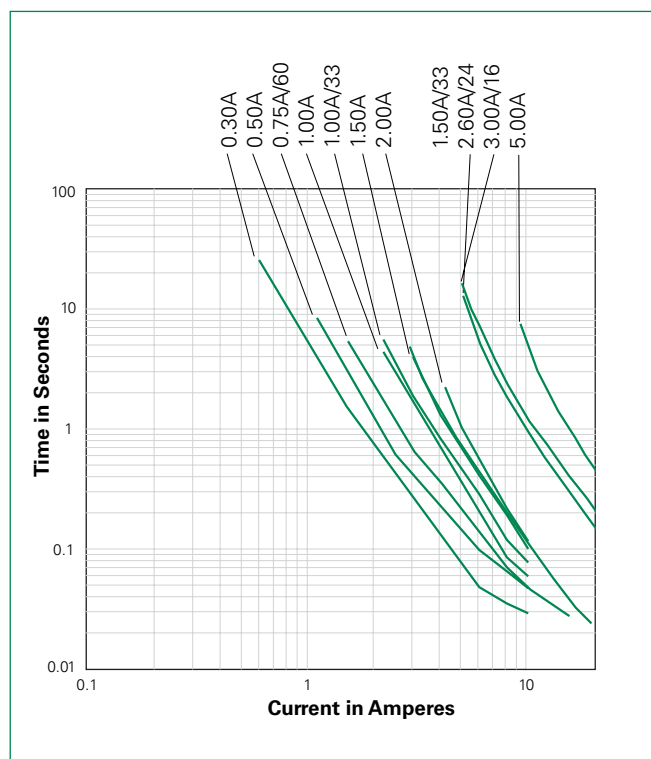
2016L Series

Surface Mount

Temperature Derating

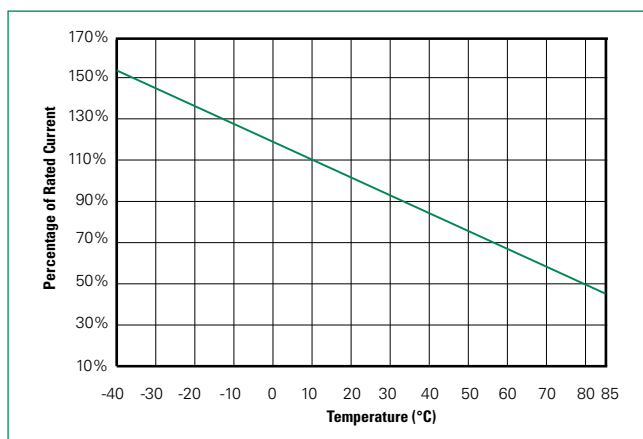
Part Number	Ambient Operation Temperature								
	-40°C	-20°C	0°C	20°C	40°C	50°C	60°C	70°C	85°C
	Hold Current (A)								
2016L030	0.45	0.40	0.35	0.30	0.25	0.23	0.20	0.18	0.14
2016L050	0.93	0.95	0.65	0.55	0.42	0.38	0.33	0.30	0.23
2016L075/60	1.05	1.06	0.85	0.75	0.60	0.55	0.45	0.40	0.30
2016L100	1.66	1.47	1.29	1.10	0.91	0.83	0.73	0.64	0.50
2016L100/33	1.66	1.47	1.29	1.10	0.91	0.83	0.73	0.64	0.50
2016L150	2.26	2.00	1.76	1.50	1.24	1.13	1.00	0.87	0.68
2016L150/33	2.26	2.00	1.76	1.50	1.24	1.13	1.00	0.87	0.68
2016L200	2.80	2.50	2.19	2.00	1.84	1.74	1.50	1.34	1.14
2016L260/24	3.82	3.46	3.06	2.60	2.24	2.03	1.82	1.60	1.26
2016L300/16	4.40	3.96	3.52	3.00	2.65	2.43	2.20	1.96	1.59
2016L500	7.29	6.57	5.86	5.00	4.38	4.02	3.66	3.26	2.66

Average Time Current Curves



The average time current curves and Temperature Derating curve performance is affected by a number of variables, and these curves provided as guidance only. Customer must verify the performance in their application.

Temperature Derating Curve



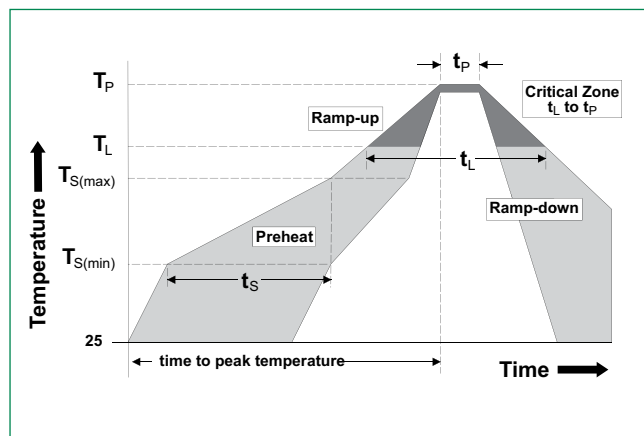
Note: Typical Temperature derating curve, refer to table for derating data

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Soldering Parameters

Profile Feature		Pb-Free Assembly
Average Ramp-Up Rate ($T_{S(max)}$ to T_p)		3°C/second max
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
Time Maintained Above:	Temperature (T_L)	217°C
	Temperature (T_L)	60 – 150 seconds
Peak / Classification Temperature (T_p)		260 ^{+0/-5} °C
Time within 5°C of actual peak Temperature (t_p)		20 – 40 seconds
Ramp-down Rate		6°C/second max
Time 25°C to peak Temperature (T_p)		8 minutes Max.



- All temperature refer to topside of the package, measured on the package body surface
- If reflow temperature exceeds the recommended profile, devices may not meet the performance requirements
- Recommended reflow methods: IR, vapor phase oven, hot air oven, N_2 environment for lead
- Recommended maximum paste thickness is 0.25mm (0.010inch)
- Devices can be cleaned using standard industry methods and solvents
- Devices can be reworked using the standard industry practices

Physical Specifications

Terminal Material	Solder-Plated Copper (Solder Material: Matte Tin(Sn))
Lead Solderability	Meets EIA Specification RS186-9E, ANSI/J-STD-002 Category 3.

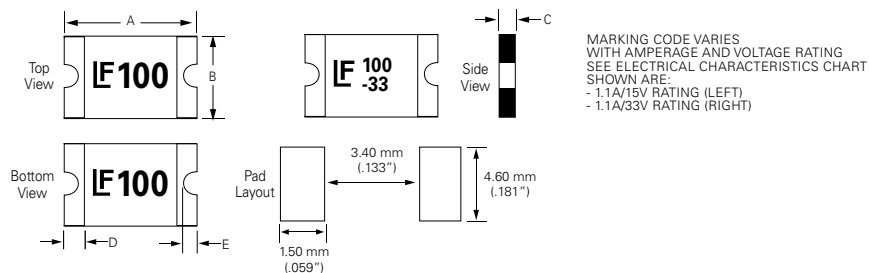
Environmental Specifications

Operating Temperature	-40°C to +85°C
Maximum Device Surface Temperature in Tripped State	125°C
Passive Aging	+85°C, 1000 hours -/+5% typical resistance change
Humidity Aging	+85°C, 85%, R.H., 1000 hours -/+5% typical resistance change
Thermal Shock	MIL-STD-202, Method 107 +85°C/-40°C 20 times -30% typical resistance change
Solvent Resistance	MIL-STD-202, Method 215 No change
Vibration	MIL-STD-883, Method 2007, Condition A No change
Moisture Sensitivity Level	Level 1, J-STD-020

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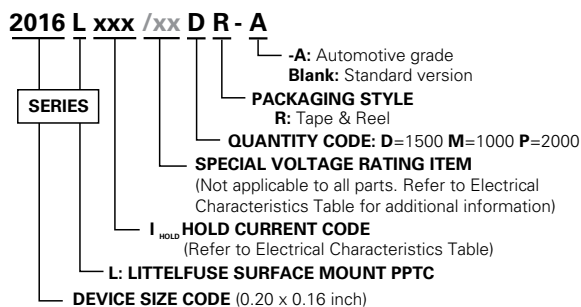
Surface Mount

Dimensions (mm)



Part Number	A				B				C				D				E			
	Inches		mm		Inches		mm		Inches		mm		Inches		mm		Inches		mm	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
2016L030									0.03	0.05	0.75	1.25								
2016L050									0.05	0.08	1.20	2.00								
2016L075/60								4.43	0.05	0.08	1.20	2.00								
2016L100									0.02	0.03	0.50	0.75								
2016L100/33									0.03	0.05	0.75	1.25								
2016L150	0.19	0.21	4.72	5.44	0.15	0.17	3.7		0.03	0.06	0.75	1.55	0.01	0.06	0.3	1.5	0.01	0.03	0.25	0.65
2016L150/33								4.43	0.03	0.06	0.80	1.60								
2016L200								4.43	0.02	0.03	0.50	0.75								
2016L260/24																				
2016L300/16								4.43	0.03	0.06	0.80	1.60								
2016L500																				

Part Ordering Number System



Packaging

Part Number	Ordering Number	Halogen Free	I _{hold} (A)	I _{hold} Code	Voltage Option	Packaging Option	Quantity	Quantity & Packaging Codes
2016L030	2016L030DR	Yes	0.30	030		Tape and Reel	1500	DR
2016L050	2016L050MR	Yes	0.55	050		Tape and Reel	1000	MR
2016L075/60	2016L075/60MR	Yes	0.75	075	/60	Tape and Reel	1000	MR
2016L100	2016L100PR	Yes	1.10	110		Tape and Reel	2000	PR
2016L100/33	2016L100/33DR	Yes	1.10	110	/33	Tape and Reel	1500	DR
2016L150	2016L150DR	Yes	1.50	150		Tape and Reel	1500	DR
2016L150/33	2016L150/33DR	Yes	1.50	150	/33	Tape and Reel	1,500	DR
2016L200	2016L200PR	Yes	2.00	200		Tape and Reel	2000	PR
2016L260/24	2016L260/24MR	Yes	2.60	260	/24	Tape and Reel	1,000	MR
2016L300/16	2016L300/16MR	Yes	3.00	300	/16	Tape and Reel	1,000	MR
2016L500	2016L500DR	Yes	5.00	500	/6	Tape and Reel	1,500	DR

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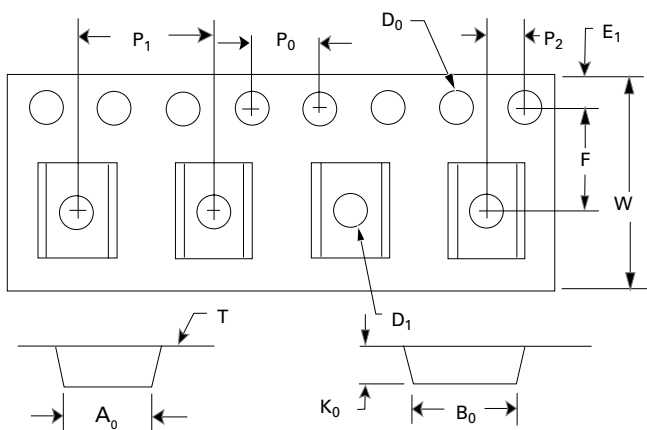
Surface Mount

Tape and Reel Specifications

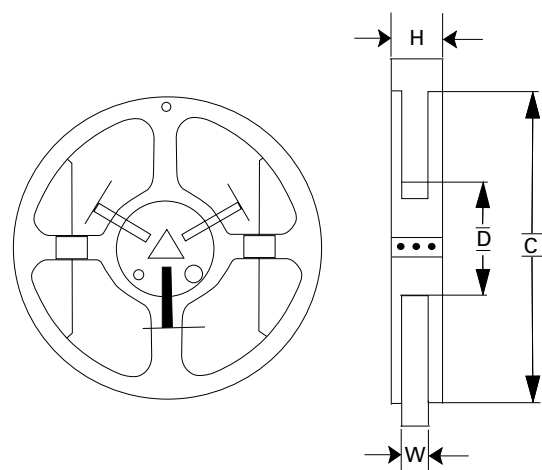
TAPE SPECIFICATIONS: EIA-481-1 (mm)				REEL DIMENSIONS: EIA-481-1 (mm)	
	2016L100 2016L200	2016L030 2016L100/33 2016L150 2016L150/33 2016L500	2016L050 2016L075/60 2016L260/24 2016L300/16		
W	12.0+/-0.30	12.0+/-0.30	12.0+/-0.30	C	Ø178.0+/-1.0
F	5.50+/-0.05	5.50+/-0.05	5.50+/-0.05	D	Ø60.2+/-0.5
E ₁	1.75+/-0.10	1.75+/-0.10	1.75+/-0.10	H	16.0+/-0.5
D ₀	1.55+/-0.05	1.55+/-0.05	1.55+/-0.05	W	13.2+/-1.5
D ₁	1.50 (MIN)	1.50+/-0.10	1.50+/-0.10		
P ₀	4.0+/-0.10	4.0+/-0.10	4.0+/-0.10		
P ₁	8.0+/-0.10	8.0+/-0.10	8.0+/-0.10		
P ₂	2.0+/-0.05	2.0+/-0.05	2.0+/-0.05		
A ₀	4.40+/-0.10	4.48+/-0.10	4.45+/-0.10		
B ₀	5.50+/-0.10	5.40+/-0.10	5.48+/-0.10		
T	0.25+/-0.10	0.25+/-0.10	0.25+/-0.10		
K ₀	0.75+/-0.10	1.36+/-0.10	1.86+/-0.10		
Leader Min.	390	390	390		
Trailer Min.	160	160	160		

Tape and Reel Diagram

Tape Specifications



Reel Specifications



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