

## Features

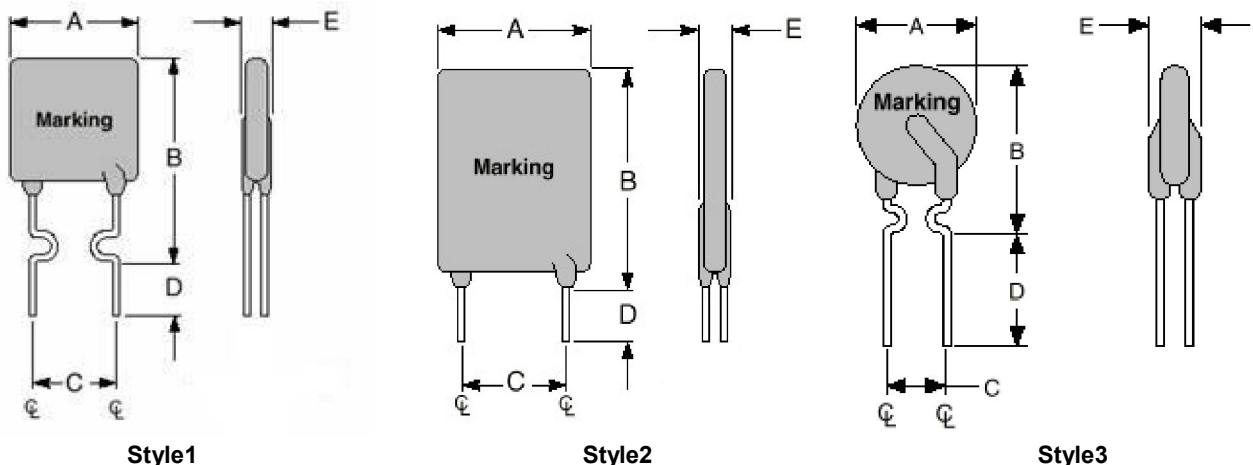
- Radial leaded devices
- Faster tripping, typical application in micro-motors for automobiles
- UL94 V-0 insulating material
- Agency Recognition: UL、CSA
- Lead-free and compliant with the European Union RoHS Directive 2011/65/EU



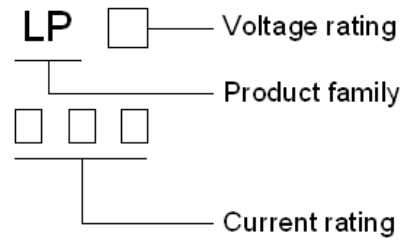
## LP16 series

## Product Dimensions

Part number	A		B		C		D		E		Lead	
	Max.	Max.	Min.	Min.	Min.	Max.	Style	Size(φ)				
LP16-075F	6.5	11.5	4.4	5.8	7.6	3.0	3	0.5				
LP16-090F	6.0	14.0	4.4	5.8	7.6	3.0	1	0.5				
LP16-110F	8.2	14.2	4.4	5.8	7.6	3.0	1	0.5				
LP16-120F	7.7	12.7	4.4	5.8	7.6	3.0	3	0.5				
LP16-135F	9.0	14.5	4.4	5.8	7.6	3.0	1	0.5				
LP16-160F	9.0	16.5	4.4	5.8	7.6	3.0	1	0.5				
LP16-185F	11.0	16.7	4.4	5.8	7.6	3.0	1	0.5				
LP16-200F	13.5	18.0	4.4	5.8	7.6	3.0	3	0.5				
LP16-250F	11.5	19.0	4.4	5.8	7.6	3.0	1	0.5				
LP16-300F	8.5	15.5	4.4	5.8	7.6	3.0	2	0.8				
LP16-400F	9.2	16.5	4.4	5.8	7.6	3.0	2	0.8				
LP16-500F	11.1	17.0	4.4	5.8	7.6	3.0	2	0.8				
LP16-600F	11.4	19.0	4.4	5.8	7.6	3.0	2	0.8				
LP16-700F	12.5	22.5	4.4	5.8	7.6	3.0	2	0.8				
LP16-800F	12.5	22.5	4.4	5.8	7.6	3.0	2	0.8				
LP16-900F	15.5	23.0	4.4	5.8	7.6	3.0	2	0.8				
LP16-1000F	17.2	27.0	4.4	5.8	7.6	3.0	2	0.8				
LP16-1100F	17.2	27.0	4.4	5.8	7.6	3.0	2	0.8				
LP16-1200F	18.2	29.0	9.5	10.9	7.6	3.4	2	0.8				
LP16-1400F	24.0	28.7	9.5	10.9	7.6	3.4	2	0.8				



## Marking system



\* Lead materials: Tin-plate metal wire.

## Electrical Characteristics

Part number	$I_H$	$I_T$	Max. Time-to-trip		$V_{max}$	$I_{max}$	$Pd_{typ}$	$R_{min}$	$R_{max}$	$R_{1max}$
	(A)	(A)	Current(A)	Time(s)	(V)	(A)	(W)	( $\Omega$ )	( $\Omega$ )	( $\Omega$ )
LP16-075F	0.75	1.50	8.0	0.4	16	40	0.3	0.14	0.23	0.40
LP16-090F	0.90	1.80	8.0	1.2	16	40	0.6	0.10	0.18	0.31
LP16-110F	1.10	2.20	8.0	2.3	16	40	0.7	0.08	0.14	0.25
LP16-120F	1.20	2.40	8.0	3.5	16	40	0.8	0.08	0.14	0.25
LP16-135F	1.35	2.70	8.0	4.5	16	40	0.8	0.06	0.12	0.20
LP16-160F	1.60	3.20	8.0	9.0	16	40	0.9	0.05	0.11	0.20
LP16-185F	1.85	3.70	9.25	10.0	16	40	1.0	0.05	0.09	0.18
LP16-200F	2.00	4.00	10.0	10.0	16	40	1.0	0.04	0.08	0.16
LP16-250F	2.50	5.00	12.5	10.0	16	40	1.2	0.03	0.06	0.12
LP16-300F	3.00	5.10	15.0	2.0	16	100	2.3	0.034	0.075	0.105
LP16-400F	4.00	6.80	20.0	3.5	16	100	2.4	0.020	0.040	0.063
LP16-500F	5.00	8.50	25.0	3.6	16	100	2.6	0.014	0.024	0.044
LP16-600F	6.00	10.20	30.0	5.8	16	100	2.8	0.009	0.021	0.030
LP16-700F	7.00	11.90	35.0	8.0	16	100	3.0	0.006	0.015	0.021
LP16-800F	8.00	13.60	40.0	9.0	16	100	3.0	0.005	0.012	0.018
LP16-900F	9.00	15.30	45.0	12.0	16	100	3.3	0.004	0.011	0.015
LP16-1000F	10.00	17.00	50.0	12.5	16	100	3.3	0.003	0.008	0.012
LP16-1100F	11.00	18.70	55.0	13.5	16	100	3.7	0.003	0.007	0.010
LP16-1200F	12.00	20.40	60.0	16.0	16	100	4.2	0.002	0.006	0.009
LP16-1400F	14.00	23.80	70.0	20.0	16	100	4.6	0.0014	0.0044	0.008

$I_H$ =Hold current: maximum current at which the device will not trip at 25°C still air.

$I_T$ =Trip current: minimum current at which the device will always trip at 25°C still air.

Max. Time-to-trip =Maximum time to trip(s) at assigned current.

$V_{max}$ =Maximum voltage device can withstand without damage at rated current.

$I_{max}$ =Maximum fault current device can withstand without damage at rated voltage.

$Pd_{typ}$ =Typical power dissipation: typical amount of power dissipated by the device when in state air environment.

$R_{min}$ =Minimum device resistance at 25°C prior to tripping.

$R_{max}$ =Maximum device resistance at 25°C prior to tripping.

$R_{1max}$ =Maximum resistance of device when measured one hour post trip at 25°C.

## Thermal Derating Chart- $I_H$ (A)

Part number	Maximum ambient operating temperatures(°C)								
	-40	-20	0	25	40	50	60	70	85
LP16-075F	1.05	0.95	0.85	0.75	0.65	0.60	0.55	0.50	0.43
LP16-090F	1.40	1.25	1.10	0.90	0.75	0.69	0.65	0.60	0.50
LP16-110F	1.69	1.52	1.33	1.10	0.99	0.90	0.80	0.73	0.63
LP16-120F	1.75	1.52	1.36	1.20	1.04	0.96	0.88	0.80	0.68
LP16-135F	1.96	1.76	1.55	1.35	1.12	1.04	0.92	0.82	0.70
LP16-160F	2.49	2.21	1.94	1.60	1.42	1.31	1.19	1.03	0.88
LP16-185F	2.87	2.59	2.28	1.85	1.63	1.52	1.33	1.21	1.03
LP16-200F	3.45	3.04	2.55	2.00	1.68	1.46	1.33	1.21	1.05
LP16-250F	3.82	3.44	3.03	2.50	2.17	2.00	1.81	1.59	1.39

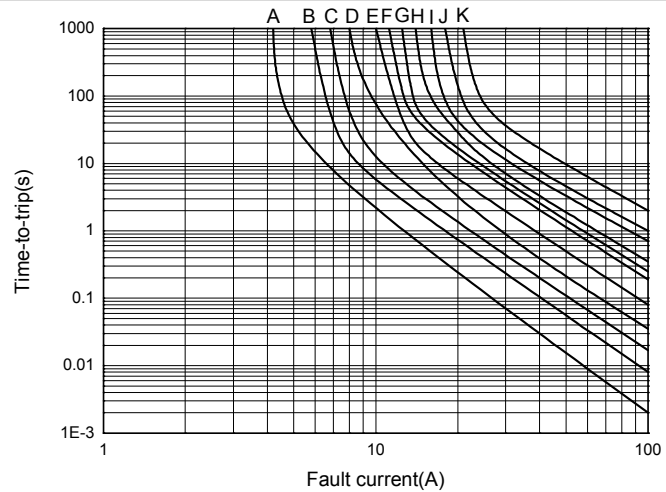
LP16-300F	4.4	4.0	3.6	3.0	2.6	2.4	2.1	1.9	1.4
LP16-400F	5.9	5.3	4.8	4.0	3.5	3.2	2.8	2.5	1.9
LP16-500F	7.3	6.6	6.0	5.0	4.4	4.0	3.6	3.1	2.4
LP16-600F	8.8	8.0	7.2	6.0	5.2	4.8	4.2	3.8	2.8
LP16-700F	10.3	9.3	8.4	7.0	6.2	5.6	5.0	4.4	3.3
LP16-800F	11.7	10.7	9.6	8.0	6.9	6.4	5.6	5.1	3.7
LP16-900F	13.2	11.9	10.7	9.0	7.9	7.2	6.4	5.6	4.2
LP16-1000F	14.7	13.3	12.0	10.0	8.7	8.0	7.0	6.3	4.7
LP16-1100F	16.1	14.6	13.1	11.0	9.7	8.8	7.8	6.9	5.2
LP16-1200F	17.6	16.0	14.4	12.0	10.4	9.6	8.4	7.6	5.6
LP16-1400F	20.5	18.7	16.8	14.0	12.1	11.2	9.8	8.9	6.5

## Test Procedures And Requirements

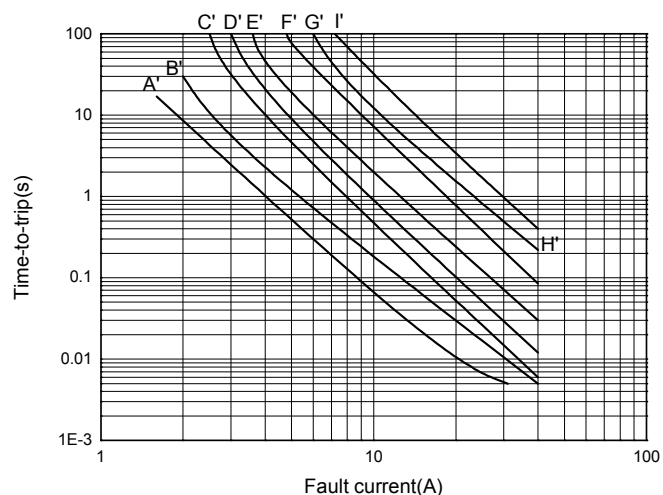
Test	Test Conditions	Accept/Reject Criteria
Resistance	In still air @ 25°C	$R_{min} \leq R \leq R_{max}$
Time to Trip	Specified current, $V_{max}$ , 25°C	$T \leq$ maximum Time to Trip
Hold Current	30min, at $I_H$	No trip
Trip Cycle Life	$V_{max}$ , $I_{max}$ , 100cycles	No arcing or burning
Trip Endurance	$V_{max}$ , 2hours	No arcing or burning

## Typical Time-to-Trip Charts at 25°C

A=LP16-300F  
 B=LP16-400F  
 C=LP16-500F  
 D=LP16-600F  
 E=LP16-700F  
 F=LP16-800F  
 G=LP16-900F  
 H=LP16-1000F  
 I=LP16-1100F  
 J=LP16-1200F  
 K=LP16-1400F



A'=LP16-075F  
 B'=LP16-090F  
 C'=LP16-110F  
 D'=LP16-120F  
 E'=LP16-135F  
 F'=LP16-160F  
 G'=LP16-185F  
 H'=LP16-200F  
 I'=LP16-250F



## Package Information

Bulk:

LP16-075F~LP16-900F.....1000pcs per bag  
 LP16-400F~LP16-600F.....500pcs per bag  
 LP16-1000F~LP16-1200F.....500pcs per bag  
 LP16-1400F.....250pcs per bag

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Specifications are subject to change without notice

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