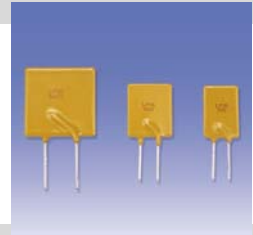


## LP16 series

## R-line Device

## Features

- Radial leaded devices
- Cured, flame retardant epoxy polymer insulating material meets UL94 V-0 requirements
- Lead-free and compliant with the European Union RoHS Directive 2002/95/EC
- Agency Recognition: UL、CSA、TUV

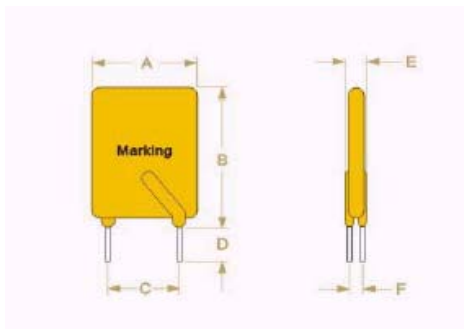


## Applications

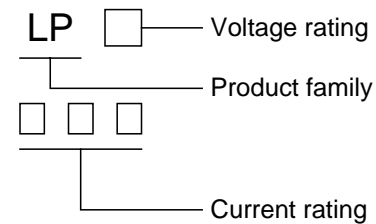
- Power supply
- High capability battery
- Motors and Wire harness
- USB ports
- Linear AC/DC adapters
- Transformers

## Product Dimensions

Part number	A	B	C	D	E	F	Lead
	Max.	Max.	Typ.	Min.	Max.	Typ.	Size( $\phi$ )
LP16-300	7.8	11.7	5.1	7.6	3.0	1.2	0.8
LP16-400	9.6	13.8	5.1	7.6	3.0	1.2	0.8
LP16-500	11.1	13.9	5.1	7.6	3.0	1.2	0.8
LP16-600	11.4	16.8	5.1	7.6	3.0	1.2	0.8
LP16-700	11.9	19.7	5.1	7.6	3.0	1.2	0.8
LP16-800	13.4	21.2	5.1	7.6	3.0	1.2	0.8
LP16-900	14.7	21.4	5.1	7.6	3.0	1.2	0.8
LP16-1000	17.2	24.8	5.1	7.6	3.0	1.2	0.8
LP16-1100	18.2	26.7	5.1	7.6	3.0	1.2	0.8
LP16-1200	18.2	28.5	10.2	7.6	3.6	1.4	1.0
LP16-1400	28.6	28.7	10.2	7.6	3.4	1.4	1.0



## Marking system



\* Lead materials: Tin-plate metal wire.

## Electrical Characteristics

Part number	$I_H$	$I_T$	$T_{trip}$	$V_{max}$	$I_{max}$	$Pd_{typ}$	$R_{min}$	$R_{1max}$
	(A)	(A)	(S)	(V)	(A)	(W)	( $\Omega$ )	( $\Omega$ )
LP16-300	3.0	5.1	2.0	16	100	2.3	0.034	0.105
LP16-400	4.0	6.8	3.5	16	100	2.4	0.020	0.063
LP16-500	5.0	8.5	3.6	16	100	2.6	0.014	0.044
LP16-600	6.0	10.2	5.8	16	100	2.8	0.009	0.030
LP16-700	7.0	11.9	8.0	16	100	3.0	0.006	0.021
LP16-800	8.0	13.6	9.0	16	100	3.0	0.005	0.018
LP16-900	9.0	15.3	12.0	16	100	3.3	0.004	0.015
LP16-1000	10.0	17.0	12.5	16	100	3.3	0.003	0.012
LP16-1100	11.0	18.7	13.5	16	100	3.7	0.003	0.010
LP16-1200	12.0	20.4	16.0	16	100	4.2	0.002	0.009
LP16-1400	14.0	23.8	20.0	16	100	4.6	0.0014	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.

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

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

$T_{trip}$ =Maximum time to trip at assigned current.

$P_{dtyp}$ =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.

### Thermal Derating Chart-Ih(A)

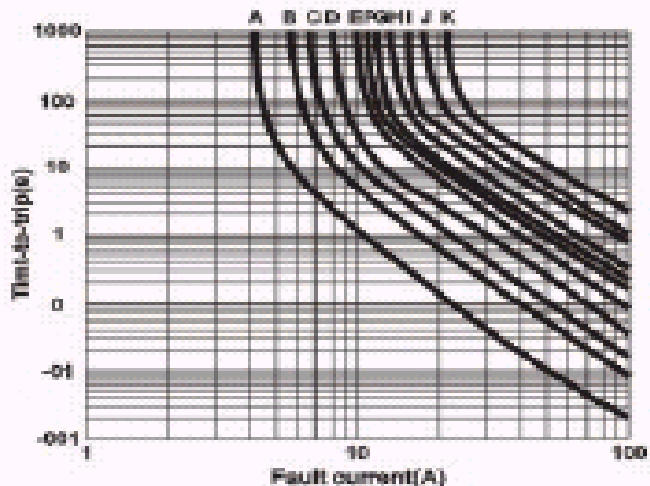
Part number	Maximum ambient operating temperatures(°C)								
	-40	-20	0	25	40	50	60	70	85
LP16-300	4.4	4.0	3.6	3.0	2.6	2.4	2.1	1.9	1.4
LP16-400	5.9	5.3	4.8	4.0	3.5	3.2	2.8	2.5	1.9
LP16-500	7.3	6.6	6.0	5.0	4.4	4.0	3.6	3.1	2.4
LP16-600	8.8	8.0	7.2	6.0	5.2	4.8	4.2	3.8	2.8
LP16-700	10.3	9.3	8.4	7.0	6.2	5.6	5.0	4.4	3.3
LP16-800	11.7	10.7	9.6	8.0	6.9	6.4	5.6	5.1	3.7
LP16-900	13.2	11.9	10.7	9.0	7.9	7.2	6.4	5.6	4.2
LP16-1000	14.7	13.3	12.0	10.0	8.7	8.0	7.0	6.3	4.7
LP16-1100	16.1	14.6	13.1	11.0	9.7	8.8	7.8	6.9	5.2
LP16-1200	17.6	16.0	14.4	12.0	10.4	9.6	8.4	7.6	5.6
LP16-1400	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	$V_{max}$ , 24hours	No arcing or burning

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

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



### Package Information

Bulk:

LP16-300~LP16-1400.....1000pcs per bag

Tape & Reel:

LP60-300~LP16-1400.....1500pcs per reel

**Notices:**

The devices are intended for protection against occasional overcurrent or overtemperature fault conditions and should not be used when repeated fault conditions are anticipated.

Operation beyond maximum ratings or improper use may result in device damage and possible electrical arcing and flame.