

## Features

- Radial leaded devices
- Faster tripping, typical application in micro-motors for automobiles
- Protecting against overcurrent and overtemperature faults
- Available in lead-free version
- Agency Recognition: UL, CSA, TUV

SEL-USE

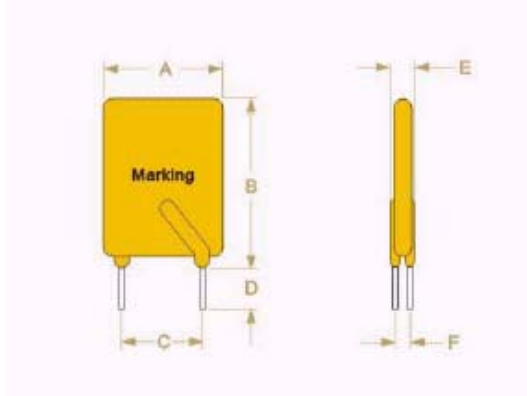


## LP16 series

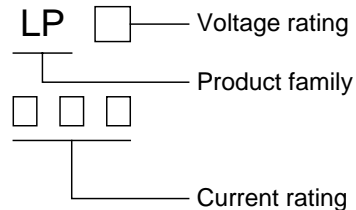
R-line devices

## Product Dimensions

Part number	A	B	C	D	E	F	Lead
	Max.	Max.	Typ.	Min.	Max.	Typ.	Size( )
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.

\* Lead-free devices are available,  
the right logo is lead-free mark of wayon.



## Electrical Characteristics

Part number	I <sub>H</sub> (A)	I <sub>T</sub> (A)	T <sub>trip</sub> (S)	V <sub>max</sub> (V)	I <sub>max</sub> (A)	Pd <sub>typ</sub> (W)	R <sub>min</sub> ( )	R <sub>1max</sub> ( )
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.

$T_{trip}$ =Maximum time to trip at 5 times hold current (i.e.  $5 \cdot I_H$ ).

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

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

$P_{dtyp}$ =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.

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

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

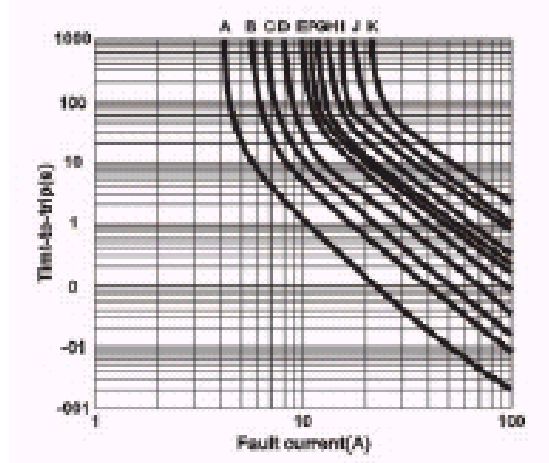
Part number	Maximum ambient operating temperatures( °C )								
	-40	-20	0	25	40	50	60	70	85
LP16-300	4.4	4.0	3.6	3.0	2.6	2.4	2.1	1.9	1.4
LP16-400	5.9	5.3	4.8	4.0	3.5	3.2	2.8	2.5	1.9
LP16-500	7.3	6.6	6.0	5.0	4.4	4.0	3.6	3.1	2.4
LP16-600	8.8	8.0	7.2	6.0	5.2	4.8	4.2	3.8	2.8
LP16-700	10.3	9.3	8.4	7.0	6.2	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	$R_{min}$ $R$ $R_{max}$
Time to Trip	Specified current, $V_{max}$ , 25 °C	T 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