

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

REL

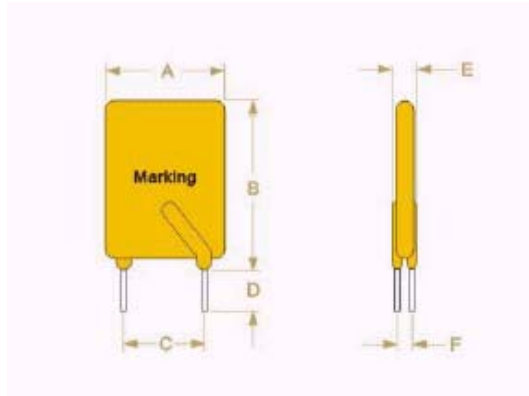


LP16 series

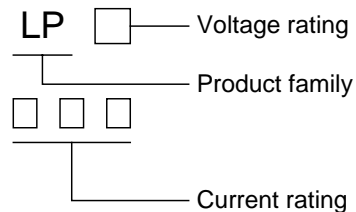
R-line devices

Product Dimensions(mm)

| 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 _H (A) | I _T (A) | T _{trip} (S) | V _{max} (V) | I _{max} (A) | Pd _{typ} (W) | R _{min} () | R _{1max} () |
|-------------|-----------------------|-----------------------|--------------------------|-------------------------|-------------------------|--------------------------|-------------------------|--------------------------|
| 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- $I_H(A)$

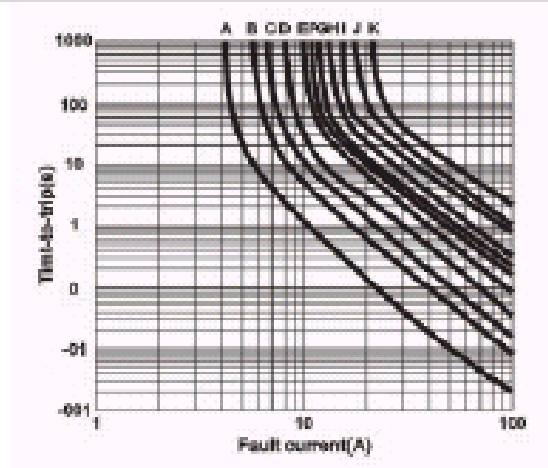
| Part number | Maximum ambient operating temperatures(°C) | | | | | | | | |
|-------------|----------------------------------------------|------|------|------|------|------|-----|-----|-----|
| | -40 | -20 | 0 | 25 | 40 | 50 | 60 | 70 | 85 |
| LP16-300 | 4.4 | 4.0 | 3.6 | 3.0 | 2.6 | 2.4 | 2.1 | 1.9 | 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_{1max} |
| 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~LP16-400/ LP16-700~LP16-900..... 1000pcs per bag
 LP16-500~LP16-600/ LP16-1000~LP16-1400.....500pcs per bag