Features

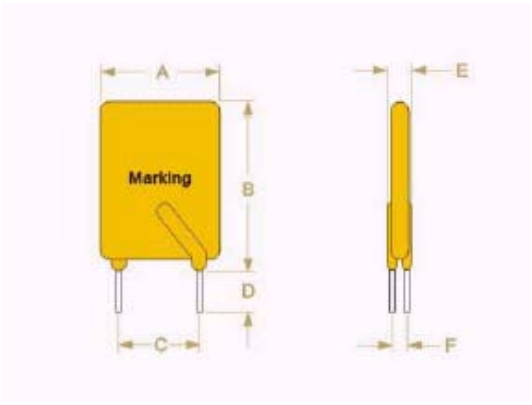


- ☐ Radial leaded devices
- ☐ Faster tripping, typical application in micro-motors for automobiles
- ☐ Protecting against overcurrent and overtemperature faults
- ☐ Available in lead-free version
- ☐ Agency Recognition: UL、CSA、TUV

LP16 *series* **R-line devices**

Product Dimensions

Part number	A	B	C	D	E	F	Lead
	Max.	Max.	Typ.	Min.	Max.	Typ.	Size(Φ)
LP16-300F	8.5	12.5	5.1	7.6	3.0	1.2	0.8
LP16-400F	9.6	13.8	5.1	7.6	3.0	1.2	0.8
LP16-500F	11.1	13.9	5.1	7.6	3.0	1.2	0.8
LP16-600F	11.4	16.8	5.1	7.6	3.0	1.2	0.8
LP16-700F	12.5	19.7	5.1	7.6	3.0	1.2	0.8
LP16-800F	13.4	21.2	5.1	7.6	3.0	1.2	0.8
LP16-900F	15.5	21.4	5.1	7.6	3.0	1.2	0.8
LP16-1000F	17.2	24.8	5.1	7.6	3.0	1.2	0.8
LP16-1100F	18.2	26.7	5.1	7.6	3.0	1.2	0.8
LP16-1200F	18.2	28.5	10.2	7.6	3.4	1.4	0.8
LP16-1400F	28.6	28.7	10.2	7.6	3.4	1.4	0.8
LP16-075F	6.4	11.4	5.1	7.6	3.0	0.9	0.5
LP16-090F	6.6	14.0	5.1	7.6	3.0	0.9	0.5
LP16-110F	7.9	14.2	5.1	7.6	3.0	0.9	0.5
LP16-120F	7.4	12.6	5.1	7.6	3.0	0.9	0.5
LP16-135F	8.9	14.5	5.1	7.6	3.0	0.9	0.5
LP16-160F	8.9	17.9	5.1	7.6	3.0	0.9	0.5
LP16-185F	10.7	16.7	5.1	7.6	3.0	0.9	0.5
LP16-250F	11.5	20.4	5.1	7.6	3.0	0.9	0.5



Marking system

LP □ — Voltage rating

Product family

□ □ □

Current rating

* 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	I_T	T_{trip}	V_{max}	I_{max}	Pd_{typ}	R_{min}	R_{1max}
	(A)	(A)	(S)	(V)	(A)	(W)	(Ω)	(Ω)
LP16-300F	3.0	5.1	2.0	16	100	2.3	0.034	0.105
LP16-400F	4.0	6.8	3.5	16	100	2.4	0.020	0.063
LP16-500F	5.0	8.5	3.6	16	100	2.6	0.014	0.044

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No. 1001, Shiwan Qi Road, Pudong Area, Shanghai E-mail: market@way-on.com Http://www.way-on.com

LP16-600F	6.0	10.2	5.8	16	100	2.8	0.009	0.030
LP16-700F	7.0	11.9	8.0	16	100	3.0	0.006	0.021
LP16-800F	8.0	13.6	9.0	16	100	3.0	0.005	0.018
LP16-900F	9.0	15.3	12.0	16	100	3.3	0.004	0.015
LP16-1000F	10.0	17.0	12.5	16	100	3.3	0.003	0.012
LP16-1100F	11.0	18.7	13.5	16	100	3.7	0.003	0.010
LP16-1200F	12.0	20.4	16.0	16	100	4.2	0.002	0.009
LP16-1400F	14.0	23.8	20.0	16	100	4.6	0.0014	0.0080
LP16-075F	0.75	1.30	0.4	16	40	0.30	0.14	0.23
LP16-090F	0.90	1.80	1.2	16	40	0.60	0.10	0.18
LP16-110F	1.10	2.20	2.3	16	40	0.70	0.08	0.14
LP16-120F	1.20	2.00	3.5	16	40	0.60	0.08	0.14
LP16-135F	1.35	2.70	4.5	16	40	0.81	0.06	0.12
LP16-160F	1.60	3.20	9.0	16	40	0.90	0.05	0.11
LP16-185F	1.85	3.70	10.0	16	40	1.00	0.05	0.09
LP16-250F	2.50	5.00	10.0	16	40	1.21	0.03	0.06

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

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

T_{trip}=Maximum time to trip at 5 times hold current (i.e. 5*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.

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℃ prior to tripping.

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

Thermal Derating Chart-$I_{H(A)}$

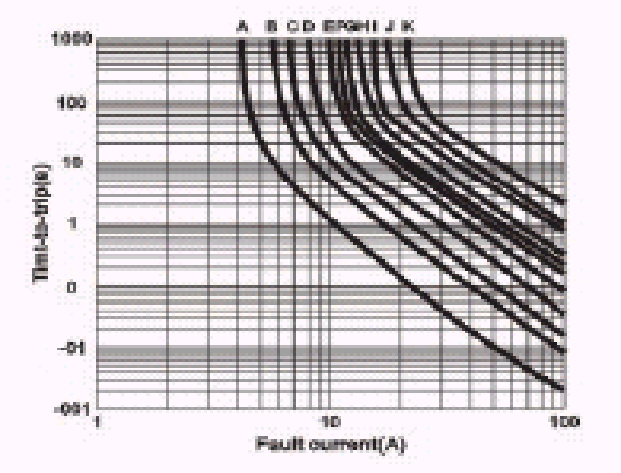
Part number	Maximum ambient operating temperatures(℃)								
	-40	-20	0	25	40	50	60	70	85
LP16-300F	4.4	4.0	3.6	3.0	2.6	2.4	2.1	1.9	1.4
LP16-400F	5.9	5.3	4.8	4.0	3.5	3.2	2.8	2.5	1.9
LP16-500F	7.3	6.6	6.0	5.0	4.4	4.0	3.6	3.1	2.4
LP16-600F	8.8	8.0	7.2	6.0	5.2	4.8	4.2	3.8	2.8
LP16-700F	10.3	9.3	8.4	7.0	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
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	1.75	1.52	1.33	1.10	0.99	0.90	0.80	0.73	0.63
LP16-120F	1.69	1.52	1.36	1.20	1.04	0.96	0.88	0.80	0.68
LP16-135F	2.15	2.21	1.94	1.60	1.42	1.31	1.19	1.03	0.88
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	1.05
LP16-250F	3.82	3.44	3.03	2.50	2.17	2.00	1.81	1.59	1.39

Test Procedures And Requirements

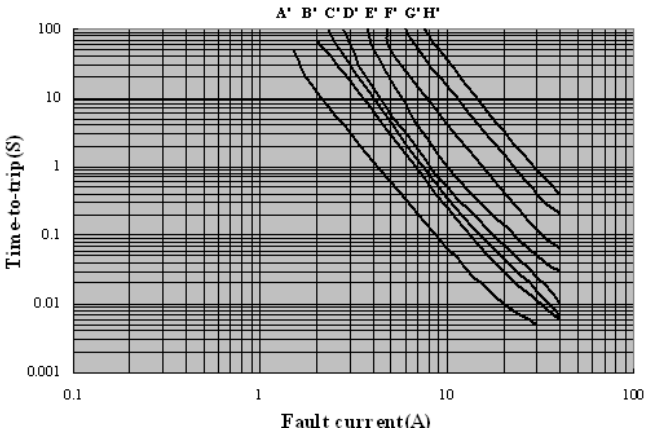
Test	Test Conditions	Accept/Reject Criteria
Resistance	In still air @ 25℃	$R_{min} \leqslant R \leqslant R_{max}$
Time to Trip	Specified current, V_{max}, 25℃	T≤maximum Time to Trip
Hold Current	30min, at I_H	No trip
Trip Cycle Life	V_{max}, I_{max}, 100cycles	No arcing or burning
Trip Endurance	V_{max}, 24hours	No arcing or burning

Typical Time–to-Trip Charts at 25℃

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'=LP16-250F



Package Information

Bulk:
LP16-075F~LP16-900F……1000pcs per bag
LP16-500F~LP16-600F……500pcs per bag
LP16-1000F~LP16-1200F……500pcs per bag
LP16-1400F……250pcs per bag

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