

DESCRIPTION : RADIAL LEADED PTC RESETTABLE FUSE

PART NO: RLD16P SERIES
(REFER TABLE)

RoHS



1. Summary

- (a) Application: Wide variety of electronic equipments
- (b) Product Features: Very Low resistance, Very high hold current, Solid state, Radial leaded product ideal for upto 16V
- (c) Operation Current: 3.0A – 14.0A
- (d) Maximum Voltage: 16V
- (e) Temperature Range: –40°C to 85°C

3. Electrical Characteristics (23°C)

Part Number	Hold Current	Trip Current	Max. Time to Trip	Max. Current	Rated Voltage	Typical Power	Resistance Tolerance	
							R _{min}	R _{l max}
RLD16P250	2.5	4.7	5.0	100	16	1.0	0.022	0.053
B	3.0	5.1	2.0	100	16	2.3	0.034	0.105
RLD16P300	4.0	6.8	3.5	100	16	2.4	0.020	0.063
B	5.0	8.5	3.6	100	16	2.6	0.014	0.044
RLD16P400	6.0	10.2	5.8	100	16	2.8	0.009	0.033
B	7.0	11.9	8.0	100	16	3.0	0.006	0.021
RLD16P500	8.0	13.6	9.0	100	16	3.0	0.005	0.018
B	9.0	15.3	12.0	100	16	3.3	0.004	0.015
RLD16P600	10.0	17.0	12.5	100	16	3.3	0.003	0.012
B	11.0	18.7	13.5	100	16	3.7	0.003	0.010
RLD16P700	12.0	20.4	16.0	100	16	4.2	0.002	0.009
B	14.0	23.8	20.0	100	16	4.6	0.002	0.008

RLD16P800

B

RLD16P900

NOTE : Specification subject to change without notice.

RLD16P100

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RLD16P110

OB

RLD16P120



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I_h= Hold current—maximum current at which the device will not trip at 23°C still air.
I_t= Trip current—minimum current at which the device will always trip at 23°C still air.
V_{max}= Maximum voltage device can withstand without damage at its rated current.
I_{max}= Maximum fault current device can withstand without damage at rated voltage (V max.).
P_d= Typical power dissipated from device when in tripped state in 23°C still air environment.
R_{min}= Minimum device resistance at 23°C.
R_{1max}= Maximum device resistance at 23°C, 1 hour after tripping.

4 Product Dimensions (millimeter):

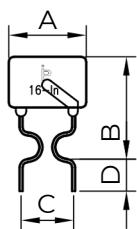


FIGURE-1

Lead Size : 24AWG,
Ø 0.51mm

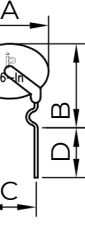
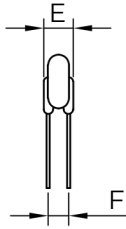


FIGURE-2

Lead Size : 20AWG
Ø 0.81mm

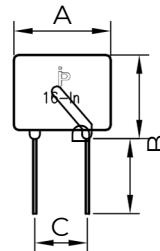


FIGURE-3

Lead Size : 20AWG
Ø 0.81mm

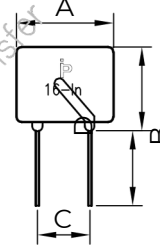


FIGURE-4

Lead Size : 18AWG
Ø 1.0mm

PART NUMBER	A	B	C	D	E	F
	Maximum	Maximum	Typical	Minimum	Maximum	Typical
RLD16P250	8.9	12.8	5.1	7.6	3.0	1.2
B	7.1	11.0	5.1	7.6	3.0	1.2
RLD16P300	8.9	12.8	5.1	7.6	3.0	1.2
B	10.4	14.3	5.1	7.6	3.0	1.2
RLD16P400	10.7	17.1	5.1	7.6	3.0	1.2
B	11.2	19.7	5.1	7.6	3.0	1.2
RLD16P500	12.7	20.9	5.1	7.6	3.0	1.2
B	14.0	21.7	5.1	7.6	3.0	1.2
RLD16P600	16.5	24.1	5.1	7.6	3.0	1.2
B	17.5	26.0	5.1	7.6	3.0	1.2
RLD16P700	17.5	28.0	10.2	7.6	3.6	1.4
B	27.9	27.9	10.2	7.6	3.4	1.4

RLD16P800

B

RLD16P900

B

RLD16P100

OB

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OB

RLD16P120

OB

RLD16P140

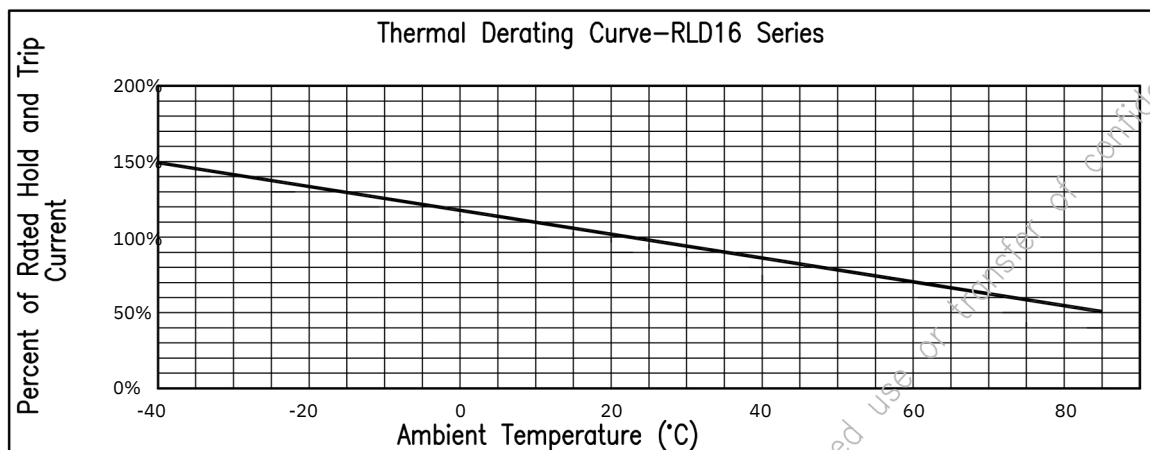
PART NUMBER	A	B	C	D	E	F
	Max	Max	Typ	Min	Max	Typ
99PT0211-01	10.7	17.1	5.1	7.6	3.0	1.2



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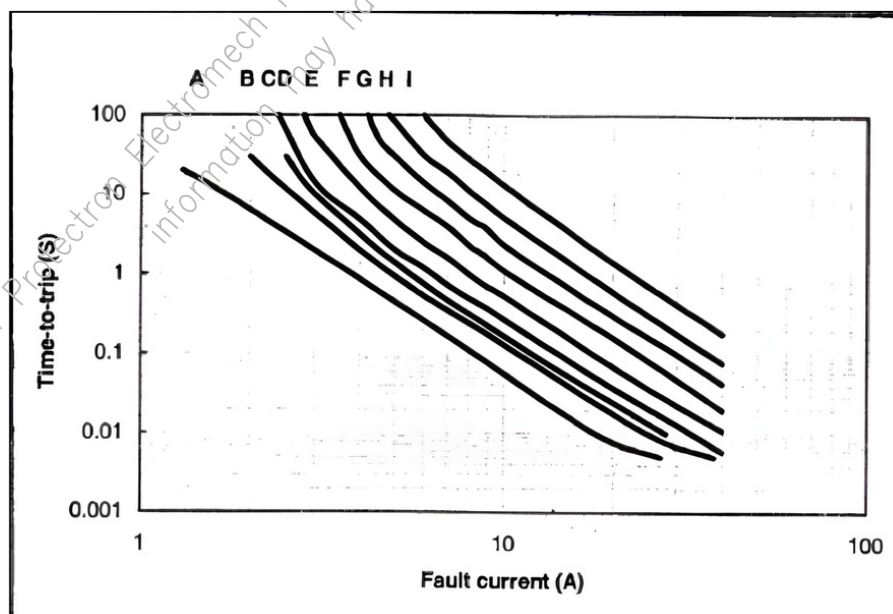
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5. Thermal Derating Curve :



6. Typical Time-To-Trip at 23°C

- A= RLD16P250B
- B= RLD16P300B
- C= RLD16P400B
- D= RLD16P500B
- E= RLD16P600B
- F= RLD16P700B
- G= RLD16P800B
- H= RLD16P900B
- I= RLD16P1000B
- J= RLD16P1100B
- K= RLD16P1200B
- L= RLD16P1400B



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7. Material Specification :

Lead Material : RLD16P250B ~RLD16P1100B Tin plated copper, 24 AWG

RLD16P300B ~RLD16P1100B Tin plated copper, 20 AWG

RLD16P1200B ~RLD16P1400B Tin plated copper, 18 AWG

Soldering characteristics : MIL-STD-202, Method 208E

Insulating coating : Flame retardant epoxy, meets UL 94V-0 requirement.

Warning :- Operations beyond the specified maximum ratings or improper use may result in damage and possible electrical arcing and/or flame.

 -PPTC device are intended for occasional overcurrent protection. Application for repeated overcurrent condition and/or prolonged trip are not anticipated.

Avoid contact of PPTC device with chemical solvent. Prolonged contact will damage the device performance.

ORDERING INFORMATION

**RLD16P SERIES
(REFER TABLE)**

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Projection:



Scale: NTS

Sht. Size: A4

Gen. Tol.: $\pm 0.5\text{mm}$
 $\pm 1^\circ$

ALL DIMENSIONS ARE IN MM.
IF UNLESS OTHERWISE SPECIFIED.