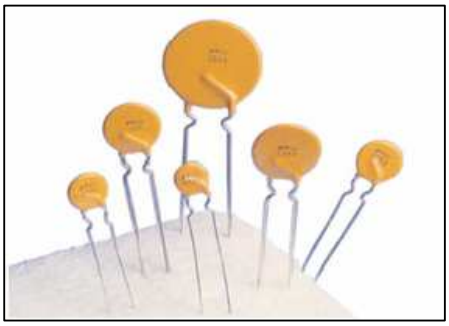
PROTECTRON ELECTROMECH (P) LTD

DESCRIPTION : RADIAL LEADED PTC RESETTABLE FUSE

PART NO: RLD120P SERIES
(REFER TABLE)



1.Summary

(a) Application : Wide variety of electronic equipment

(b) Product Features : Low hold current, solid state Radial-leaded product ideal for up to 120VDC/ 120VAC

(d) Operating current : 100mA~3.75A

(e) Maximum voltage : 20VDC/120VAC

(e) Temperature Range : -40°C to 85°C

2. Electrical Characteristics:

PART NUMBER	I HOLD (A)	I TRIP (A)	TIME MAX (Sec)	I MAX (A)	V MAX (Vdc)	PD MAX (W)	RESISTANCE	
							RMIN (Ω)	R1MAX (Ω)
RLD120P010X	0.10	0.20	4.0	2.0	120	0.57	2.50	7.50
RLD120P017X	0.17	0.34	3.0	2.0	120	0.59	2.00	7.00
RLD120P020X	0.20	0.40	2.2	2.0	120	0.62	1.83	4.40
RLD120P025X	0.25	0.50	2.5	3.0	120	0.68	1.25	3.00
RLD120P030X	0.30	0.60	3.0	3.0	120	0.74	0.88	2.10
RLD120P040X	0.40	0.80	3.8	3.0	120	0.84	0.55	1.29
RLD120P050X	0.50	1.00	4.0	3.0	120	1.16	0.50	1.17
RLD120P065X	0.65	1.30	5.3	3.0	120	1.32	0.31	0.72
RLD120P075X	0.75	1.50	6.3	5.0	120	1.38	0.25	0.60
RLD120P090X	0.90	1.80	7.2	5.0	120	1.49	0.20	0.47
RLD120P110X	1.10	2.20	8.2	5.0	120	2.25	0.15	0.38
RLD120P135X	1.35	2.70	9.6	8.0	120	2.55	0.12	0.30
RLD120P160X	1.60	3.20	11.4	8.0	120	2.85	0.09	0.22
RLD120P185X	1.85	3.70	12.6	8.0	120	3.15	0.08	0.19
RLD120P250X	2.50	5.00	15.6	12.0	120	3.75	0.05	0.13
RLD120P300X	3.00	6.00	19.8	15.0	120	4.20	0.04	0.10
RLD120P375X	3.75	7.50	24.0	15.0	120	4.80	0.03	0.08

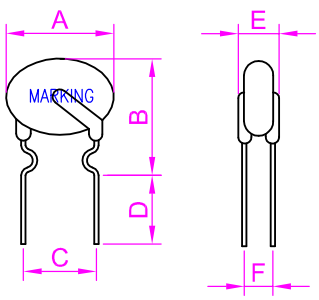
NOTE : Specification subject to change without notice.

PROTECTRON ELECTROMECH (P) LTD

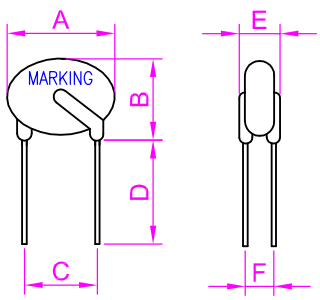
DESCRIPTION : RADIAL LEADED PTC RESETTABLE FUSE	PART NO: RLD120P SERIES (REFER TABLE)

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).
I_{MAX} = Maximum fault current device can withstand without damage at rated voltage (V max.).
Pd = Typical power dissipated–type amount of power dissipated by the device when in the tripped state in 23°C still air environment.
R_{MIN} = Minimum device resistance at 23°C prior to tripping.
$R1_{MAX}$ = Maximum device resistance at 23°C measured 1 hour post trip.
Termination pad characteristics.
Termination pad materials: Tin plated copper

3. Product Dimensions (millimeter):



RLD120P010X ~ RLD120P090X
Lead Size : 22AWG
Ø 0.65 mm



RLD120P110X ~ RLD120P375X
Lead Size : 20AWG
Ø 0.81 mm

NOTE : Specification subject to change without notice.

REV.	DESCRIPTION	DRN. BY	DATE	CK'ED BY	APP'D BY
A	ORIGINAL	RAJESH	10.12.2011		

Projection:	Scale: NTS	Sht. Size: A4	Gen. Tol.: ±0.3mm ±2°	ALL DIMENSIONS ARE IN MM. IF UNLESS OTHERWISE SPECIFIED.

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PROTECTRON ELECTROMECH (P) LTD

DESCRIPTION : RADIAL LEADED PTC RESETTABLE FUSE

PART NO: RLD120P SERIES
(REFER TABLE)

PART NUMBER	A (MAX)	B (MAX)	C (TYP)	D (MIN)	E (MAX)	F (TYP)
RLDI20P010X	7.9	12.7	5.1	7.6	5.0	3.0
RLDI20P017X	7.9	12.7	5.1	7.6	5.0	3.0
RLDI20P020X	7.9	12.2	5.1	7.6	5.0	3.0
RLDI20P025X	7.9	12.7	5.1	7.6	5.0	3.0
RLDI20P030X	7.9	13.0	5.1	7.6	5.0	3.0
RLDI20P040X	8.2	14.2	5.1	7.6	5.0	3.0
RLDI20P050X	9.2	14.9	5.1	7.6	5.0	3.0
RLDI20P065X	9.7	14.9	5.1	7.6	5.0	3.0
RLDI20P075X	10.6	15.5	5.1	7.6	5.0	3.0
RLDI20P090X	11.9	15.9	5.1	7.6	5.0	3.0
RLDI20P110X	13.3	18.3	5.1	7.6	5.0	3.0
RLDI20P135X	15.5	20.6	5.1	7.6	5.0	3.0
RLDI20P160X	17.5	22.5	5.1	7.6	5.0	3.0
RLDI20P185X	19.9	24.9	5.1	7.6	5.0	3.0
RLDI20P250X	22.5	27.5	10.2	7.6	5.0	3.0
RLDI20P300X	25.5	30.0	10.2	7.6	5.0	3.0
RLDI20P375X	29.5	34.0	10.2	7.6	5.0	3.0

ORDERING INFORMATION

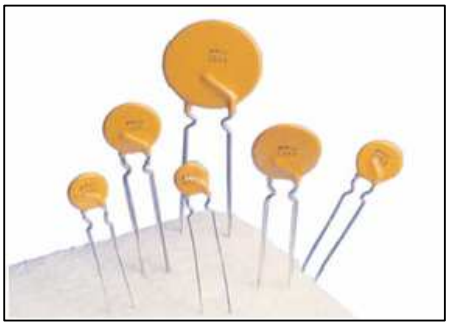
RLD120P SERIES
(REFER TABLE)

NOTE : Specification subject to change without notice.

PROTECTRON ELECTROMECH (P) LTD

DESCRIPTION : RADIAL LEADED PTC RESETTABLE FUSE

PART NO: RLD16 SERIES
(REFER TABLE)



1.Summary

(a) Application: Low voltage USB equipments, Computers and peripherals

(b) Product Features: Low resistance, Fast trip time, Lower trip-to-hold ratio

(c) Operation Current: 750mA – 2.50A

(d) Maximum Voltage: 16V/30V

(e) Temperature Range: -40°C to 85°C

2. Agency Recognition

UL : File NO. E211981

C-UL : File No. E211981

TUV : File No. R50004084

3. Electrical Characteristics (23°C)

Part Number	Hold Current	Trip Current	Max.Time to Trip		Max. Current	Rated Voltage	Typical Power	Resistance Tolerance	
								RMIN	R1MAX
	IH, A	IT, A	at 8A	at 5xIh	IMAX, A	VMAX,Vdc	Pd, W	ohms	ohms
RLD16P075B	0.75	1.30	0.4	--	40	16	0.3	0.08	0.23
RLD16P090B	0.90	1.80	1.2	5.9	40	16/30	0.6	0.07	0.18
RLD16P110B	1.10	2.20	2.3	6.6	40	16/30	0.7	0.05	0.14
RLD16P120B	1.20	2.00	0.5	--	40	16	0.6	0.04	0.14
RLD16P135B	1.35	2.70	4.5	7.3	40	16/30	0.8	0.04	0.12
RLD16P155B	1.55	2.70	0.6	--	40	16	0.7	0.03	0.12
RLD16P160B	1.60	3.20	9.0	8.0	40	16/30	0.9	0.03	0.11
RLD16P185B	1.85	3.70	10.0	8.7	40	16/30	1.0	0.03	0.09
RLD16P250B	2.50	5.00	40.0	10.3	40	16/30	1.2	0.02	0.07

NOTE : Specification subject to change without notice.

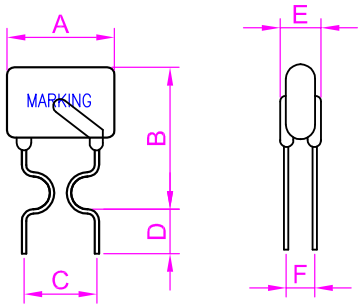
PROTECTRON ELECTROMECH (P) LTD

DESCRIPTION : RADIAL LEADED PTC RESETTABLE FUSE	PART NO: RLD16 SERIES (REFER TABLE)

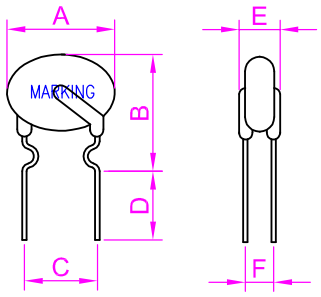
I_H= Hold current–maximum current at which the device will not trip at 23°C still air.
I_T= Trip current–minimum current at which the device will always trip at 23°C still air.
V_{MAX}= Maximum voltage device can withstand without damage at its rated current.
I_{MAX}= Maximum fault current device can withstand without damage at rated voltage (V max.).
Pd= Typical power dissipated from device when in tripped state in 23°C still air environment.
R_{MIN}= Minimum device resistance at 23°C.
$R1_{MAX}$= 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 : 24AWG
ø 0.51mm

PART NUMBER	Fig	A	B	C	D	E	F
		MAXIMUM	MAXIMUM	TYPICAL	MINIMUM	MAXIMUM	TYPICAL
RLDI6P075B	2	6.9	11.4	5.1	7.6	3.0	0.8
RLDI6P090B	1	7.4	12.2	5.1	7.6	3.0	0.8
RLDI6PI10B	1	7.4	14.2	5.1	7.6	3.0	0.8
RLDI6PI20B	2	6.9	11.7	5.1	7.6	3.0	0.8
RLDI6PI35B	1	8.9	13.5	5.1	7.6	3.0	0.8
RLDI6PI55B	2	6.9	11.7	5.1	7.6	3.0	0.8
RLDI6PI60B	1	8.9	15.2	5.1	7.6	3.0	0.8
RLDI6PI85B	1	10.2	15.7	5.1	7.6	3.0	0.8
RLDI6P250B	1	11.4	18.3	5.1	7.6	3.0	0.8

NOTE : Specification subject to change without notice.

REV.	DESCRIPTION	DRN. BY	DATE	CK'ED BY	APP'D BY
A	ORIGINAL	SACHIN	16.01.2007		

Projection:	Scale: NTS	Sht. Size: A4	Gen. Tol.: ±0.5mm ±1°	ALL DIMENSIONS ARE IN MM. IF UNLESS OTHERWISE SPECIFIED.

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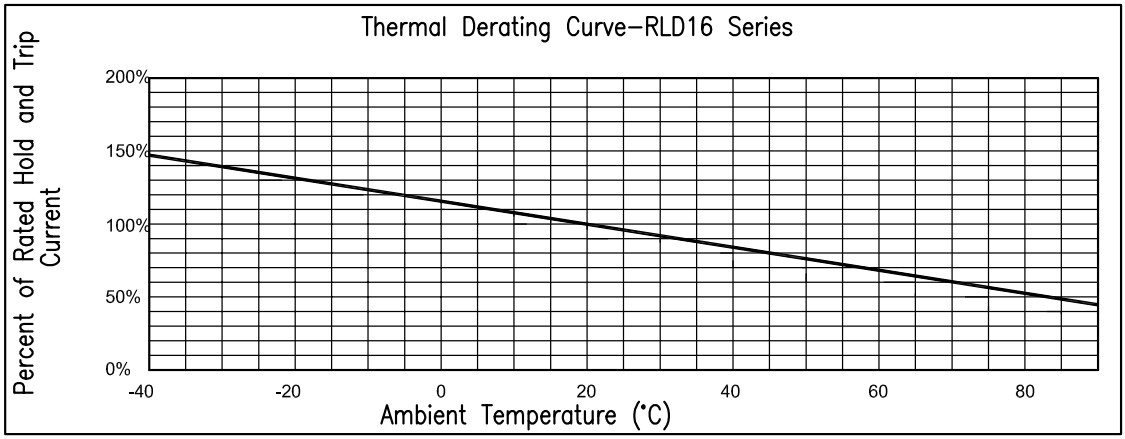
DESCRIPTION : RADIAL LEADED PTC RESETTABLE FUSE

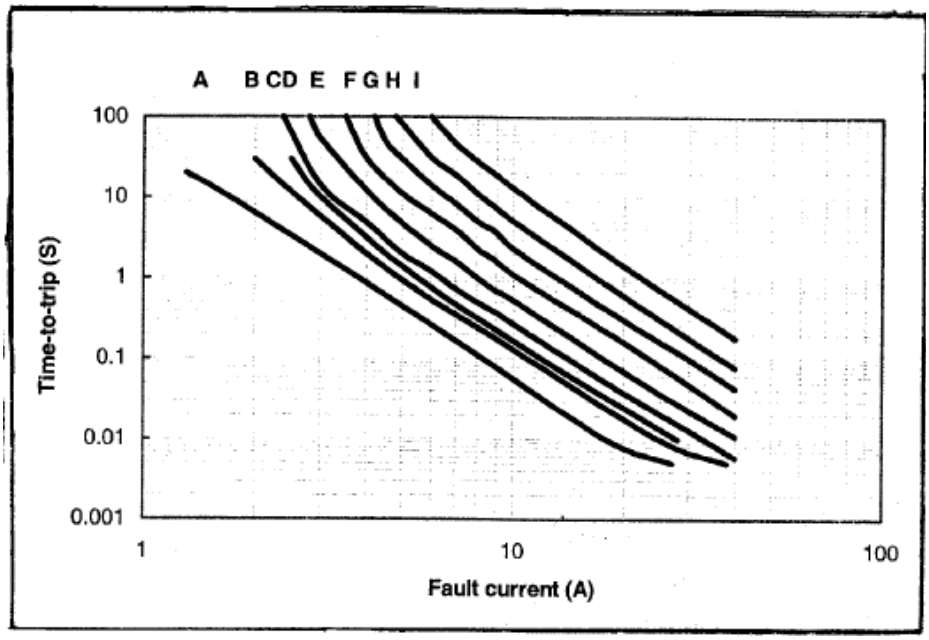
PART NO: RLD16 SERIES
(REFER TABLE)

5.Thermal Derating Curve :



6. Typical Time–To–Trip at 23°C

A= RLDI6P075B
B= RLDI6PI20B
C= RLDI6PI55B
D= RLDI6P090B
E= RLDI6PII0B
F= RLDI6PI35B
G= RLDI6PI60B
H= RLDI6PI85B
I= RLDI6P250B



NOTE : Specification subject to change without notice.

PROTECTRON ELECTROMECH (P) LTD

DESCRIPTION : RADIAL LEADED PTC RESETTABLE FUSE

PART NO: RLD16 SERIES
(REFER TABLE)

7. Material Specification :

Lead Material : Tin plated copper, 24 AWG

Soldering characteristics : Soldering ability per ANSI/J-STD 002
Solder heat withstand per IEC 68-2-20

Insulating coating : Flame retardant epoxy polymer, 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 intented 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

RLD16 SERIES
(REFER TABLE)

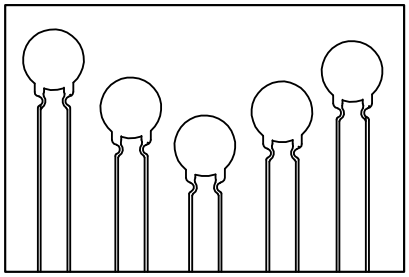
NOTE : Specification subject to change without notice.

PROTECTRON ELECTROMECH (P) LTD

DESCRIPTION : RADIAL LEADED PTC, RoHS

PART NO: RLD250 SERIES
(REFER TABLE)

1.Summary



(A). Application:

Telecommunication and Data transmitting

(B). Product Features:

Low hold current,Solid state

Radial-leaded product ideal for up to 60V/600V

(C). Operating Current: 0.08A~0.18A

(D). Maximum Voltage: 60V/250V/600V

(E). Temperature Range: -40°C to 85°C

2. AGENCY RECOGNITION

UL : File No. E211981

C-UL : File No. E211981

3. Electrical Characteristics (23°C)

Part Number	Hold Current	Max. Current	Max.Oper. Voltage	Max.Int. Voltage	Resistance Tolerance	
					Rmin.	R1max.
	IH,A	IMAX,A	VO-MAX,VDC	VI-MAX,V	ohms	ohms
RLD250P080X-U	0.08	3.0	60	250	14.0	33.0
RLD250P080X	0.08	3.0	60	250	14.0	33.0
RLD250PI10X-U	0.11	3.0	60	250	5.0	16.0
RLD250PI10X	0.11	3.0	60	250	5.0	16.0
RLD250PI20X-U	0.12	3.0	60	250	6.0	16.0
RLD250PI20X	0.12	3.0	60	250	4.0	16.0
RLD250PI45X-U	0.15	3.0	60	250	3.5	12.0
RLD250PI45X	0.15	3.0	60	250	3.0	12.0
RLD250PI80X-U	0.18	10.0	60	250	0.8	4.0
RLD250PI80X	0.18	10.0	60	250	0.8	4.0
RLD600PI50X	0.15	3.0	60	600	6.0	22.0
RLD600PI60X	0.16	3.0	60	600	4.0	18.0

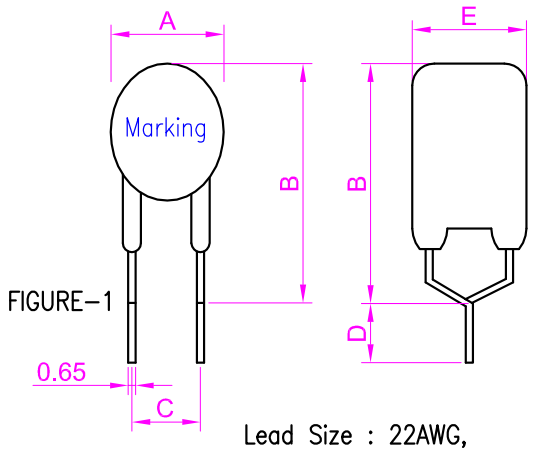
NOTE : Specification subject to change without notice.

PROTECTRON ELECTROMECH (P) LTD

DESCRIPTION : RADIAL LEADED PTC, RoHS

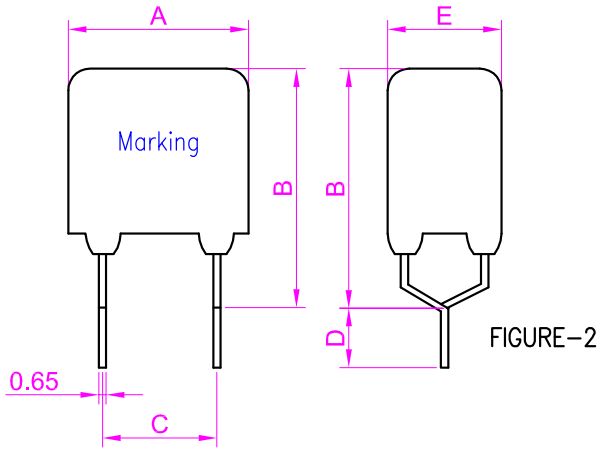
PART NO: RLD250 SERIES
(REFER TABLE)

IH= Hold current–maximum current at which the device will not trip at 23°C still air.
IT= Trip current–minimum current at which the device will always trip at 23°C still air.
VO-MAX= Maximum voltage device can withstand without damage at it's rated current.
VI-MAX= Maximum interrupt voltage device can withstand without for short period of time. (Not for long term.)
IMAX= Maximum fault current device can withstand without damage at rated voltage (V max.).
RMIN= Minimum device resistance at 23°C.
RIMAX= Maximum device resistance at 23°C, 1 hour after tripping.



FIGURE–1

Lead Size : 22AWG,
ø 0.65mm



FIGURE–2

Lead Size : 20AWG
ø 0.65mm

PART NUMBER	Fig	A	B	C	D	E
		MAXIMUM	MAXIMUM	TYPICAL	MINIMUM	MAXIMUM
RLD250P080X-U	1	4.8	9.1	5.0	4.7	3.8
RLD250P080X	1	5.3	9.6	5.0	4.7	4.6
RLD250PI10X-U	1	5.3	9.4	5.0	4.7	3.8
RLD250PI10X	1	5.8	9.9	5.0	4.7	4.6
RLD250PI20X-U	2	6.0	10.0	5.0	4.7	3.8
RLD250PI20X	2	6.5	11.0	5.0	4.7	4.6
RLD250PI45X-U	2	6.0	10.0	5.0	4.7	3.8
RLD250PI45X	2	6.5	11.0	5.0	4.7	4.6
RLD250PI80X-U	2	10.4	12.6	5.0	4.7	3.8
RLD250PI80X	2	10.0	13.6	5.0	4.7	4.6
RLD600PI50X	2	13.5	12.6	5.0	4.7	6.0
RLD600PI60X	2	16.0	12.6	5.0	4.7	6.0

REV.	DESCRIPTION	DRN. BY	DATE	CK'ED BY	APP'D BY
A	ORIGINAL	SACHIN	17.07.2003		

Projection:	Scale: NTS	Sht. Size: A4	Gen. Tol.: ±0.5mm ±1°	ALL DIMENSIONS ARE IN MM. IF UNLESS OTHERWISE SPECIFIED.

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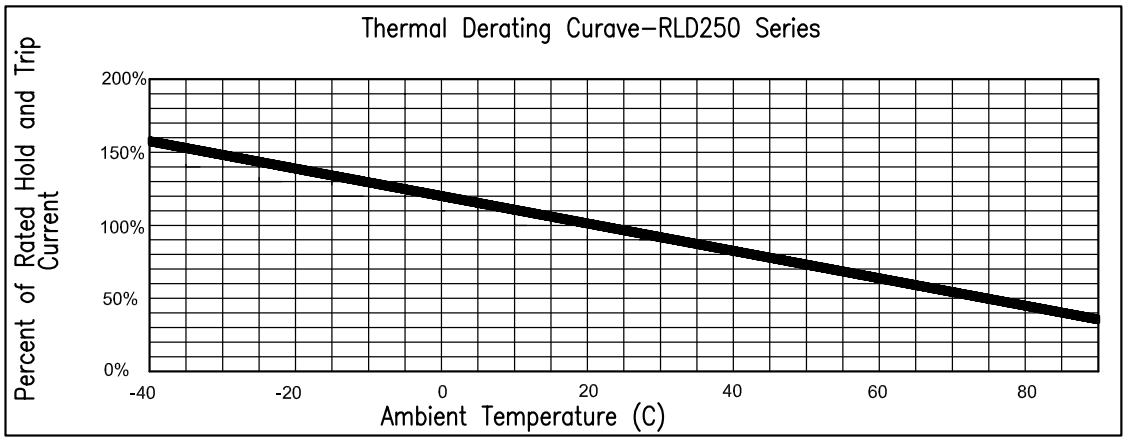
PROTECTRON ELECTROMECH (P) LTD

DESCRIPTION : RADIAL LEADED PTC, RoHS

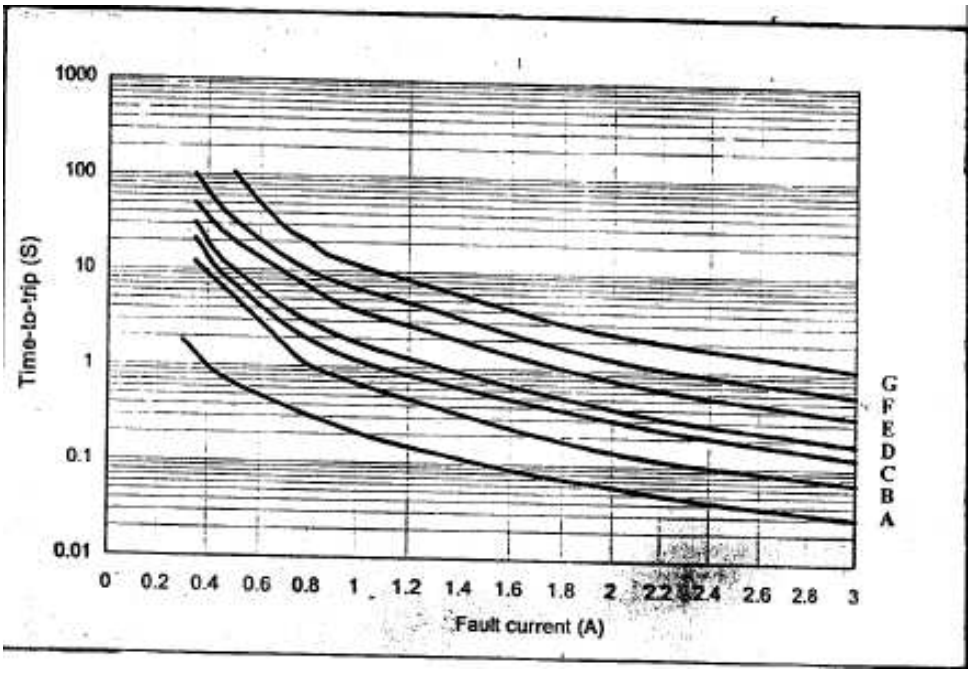
PART NO: RLD250 SERIES
(REFER TABLE)

Thermal Derating Curve :



Typical Time–To–Trip at 23°C

A= RLD250P080X-(U)
B= RLD250PI10X-(U)
C= RLD250PI20X-(U)
D= RLD250PI45X-(U)
E= RLD250PI80X-(U)
F= RLD600PI50X
G= RLD600PI60X



NOTE : Specification subject to change without notice.

DESCRIPTION : RADIAL LEADED PTC, RoHS

PART NO: RLD250 SERIES
(REFER TABLE)

7. Material Specification :

Lead Material : RLD250P080X–(U) ~ RLD250P180X–(U) Tin plated copper,24 AWG.
RLD600P150X ~ RLD600P160X Tin plated copper,20 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 elecrical arcing and/or flame.

–PPTC device are intented 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

RLD250 SERIES
(REFER TABLE)

NOTE : Specification subject to change without notice.

PROTECTRON ELECTROMECH (P) LTD

DESCRIPTION : RADIAL LEADED PTC RESETTABLE FUSE

PART NO: RLD30P SERIES
(REFER TABLE)

1.Summary

(a) Application: Wide variety of electronic equipments.

(b) Product Features: Low resistance, High hold current, Solid state, Radial leaded product ideal for up to 30V.

(c) Operation Current: 900mA~9.0A

(d) Maximum Voltage: 30V

(e) Temperature Range:−40°C to 85°C

Table 1: dimensions:(unit:mm)

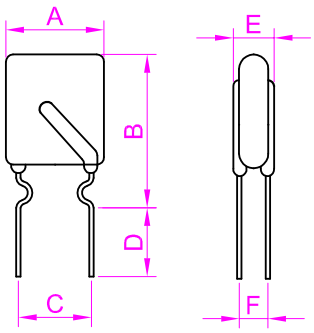
PART NUMBER	A	B	C	D	E	F	LEAD STYLE
	MAXIMUM	MAXIMUM	TYPICAL	MINIMUM	MAXIMUM	MAXIMUM	
RLD30P090U	7.4	12.2	5.1	7.6	3.0	1.2	Kink
RLD30P110U	7.4	14.2	5.1	7.6	3.0	1.2	Kink
RLD30P135U	8.9	13.5	5.1	7.6	3.0	1.2	Kink
RLD30P160U	8.9	15.2	5.1	7.6	3.0	1.2	Kink
RLD30P185U	10.2	15.7	5.1	7.6	3.0	1.2	Kink
RLD30P250U	11.4	18.3	5.1	7.6	3.0	1.2	Kink
RLD30P300U	11.4	17.3	5.1	7.6	3.0	1.2	Straight
RLD30P400U	14.0	20.1	5.1	7.6	3.0	1.2	Straight
RLD30P500U	14.0	24.9	10.2	7.6	3.0	1.2	Straight
RLD30P600U	16.5	24.9	10.2	7.6	3.0	1.2	Straight
RLD30P700U	19.1	26.7	10.2	7.6	3.0	2.0	Straight
RLD30P800U	21.6	29.2	10.2	7.6	3.0	2.0	Straight
RLD30P900U	24.1	29.7	10.2	7.6	3.0	2.0	Straight

NOTE : Specification subject to change without notice.

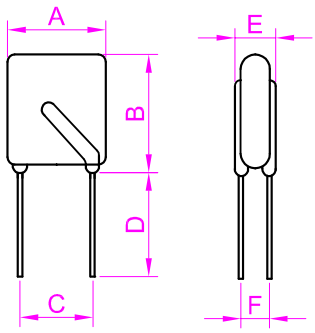
PROTECTRON ELECTROMECH (P) LTD

DESCRIPTION : RADIAL LEADED PTC RESETTABLE FUSE

PART NO: RLD30P SERIES
(REFER TABLE)



RLD30P090U~RLD30P250U
LEAD DIA: Ø0.51mm
LEAD SIZE: 24AWG



RLD30P300U~RLD30P900U
LEAD DIA: Ø0.81mm
LEAD SIZE: 20AWG

TABLE 11: PERFORMANCE RATINGS

PART NUMBER	HOLD CURRENT	TRIP CURRENT	RATED VOLTAGE	MAX. CURRENT	TYPICAL POWER	MAX. TIME TO TRIP	RESISTANCE		
							RMIN.	RIMAX.	R1MAX.
	IH,A	IT,A	VMAX,VDC	IMAX,A	PD,W	AT 5XIH	OHMS	OHMS	OHMS
RLD30P090U	0.90	1.80	30	40	0.6	5.9	0.070	0.145	0.22
RLD30P110U	1.10	2.20	30	40	0.7	6.6	0.050	0.120	0.17
RLD30P135U	1.35	2.70	30	40	0.8	7.3	0.040	0.085	0.13
RLD30P160U	1.60	3.20	30	40	0.9	8.0	0.030	0.070	0.11
RLD30P185U	1.85	3.70	30	40	1.0	8.7	0.030	0.060	0.09
RLD30P250U	2.50	5.00	30	40	1.2	10.3	0.020	0.040	0.07
RLD30P300U	3.00	6.00	30	40	2.0	10.8	0.020	0.050	0.08
RLD30P400U	4.00	8.00	30	40	2.5	12.7	0.010	0.030	0.05
RLD30P500U	5.00	10.00	30	40	3.0	14.5	0.010	0.030	0.05
RLD30P600U	6.00	12.00	30	40	3.5	16.0	0.005	0.020	0.04
RLD30P700U	7.00	14.00	30	40	3.8	17.5	0.005	0.020	0.03
RLD30P800U	8.00	16.00	30	40	4.0	18.8	0.005	0.020	0.02
RLD30P900U	9.00	18.00	30	40	4.2	20.0	0.005	0.010	0.02

NOTE : Specification subject to change without notice.

REV.	DESCRIPTION	DRN. BY	DATE	CK'ED BY	APP'D BY
A1	DRAWING REWISED	CHETAN	06.06.2011		
A	ORIGINAL	SACHIN	21.10.2003	SAVITHA	SURINDRA

Projection:	Scale: NTS	Sht. Size: A4	Gen. Tol.: ±0.5mm ±1°	ALL DIMENSIONS ARE IN MM. IF UNLESS OTHERWISE SPECIFIED.

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PROTECTRON ELECTROMECH (P) LTD

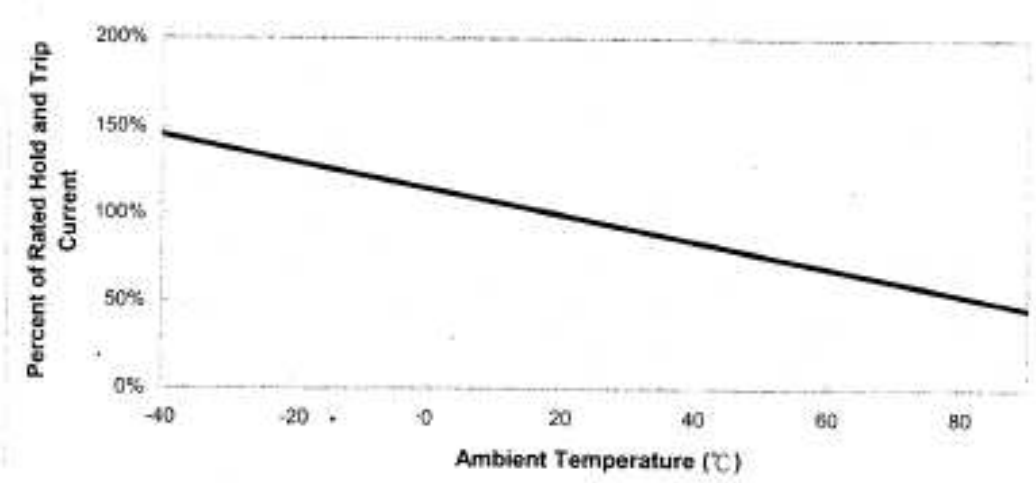
DESCRIPTION : RADIAL LEADED PTC RESETTABLE FUSE

PART NO: RLD30P SERIES
(REFER TABLE)

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 it's rated current.
I_{MAX}= Maximum fault current device can withstand without damage at rated voltage (V max.).
P_D= Maximum power dissipated from device when in tripped state in 23°C still air environment.
R_{MIN}= Minimum device resistance at 23°C.
R_{IMAX}= Maximum device resistance at 23°C, 1 hour after tripping.

NOTE : Specification subject to change without notice.

THERMAL DERATING CURVE



ORDERING INFORMATION

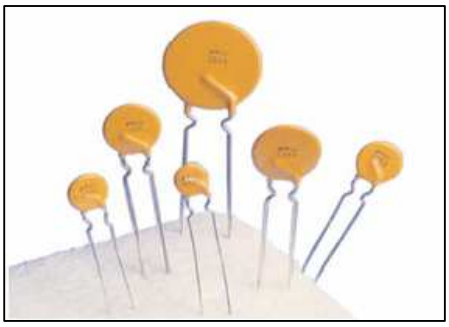
RLD30P SERIES
(REFER TABLE)

NOTE : Specification subject to change without notice.

PROTECTRON ELECTROMECH (P) LTD

DESCRIPTION : RADIAL LEADED PTC RESETTABLE FUSE

PART NO: RLD90P SERIES
(REFER TABLE)



1.Summary

(a) RoHS Complaint (Lead Free) Product
(b) Application: Telecom & wide variety of electronic equipment.
(c) Product Features: Low hold current, Solid state, Radial leaded product ideal for up to 90V
(d) Operation Current: 100mA to 3.75A
(e) Maximum Voltage: Up to 90V
(f) Temperature Range: −40°C to 85°C

2. Electrical Characteristics (23°C)

PART NUMBER	HOLD CURRENT	TRIP CURRENT	MAX. TIME TO TRIP	MAX. CURRENT	RATED VOLTAGE	TYPICAL POWER	RESISTANCE TOLERANCE	
							Rmin.	R1max.
	IH,A	IT,A	AT5XIH	IMAX,A	VMAX,VDC	PD,W	ohms	ohms
RLD90P010X	0.10	0.20	4.0	40	72/90	0.38	2.50	7.50
RLD90P015X	0.15	0.35	10.0	40	72/90	0.70	2.40	7.00
RLD90P017X	0.17	0.34	3.0	40	72/90	0.48	2.00	5.00
RLD90P020X	0.20	0.40	2.2	40	72/90	0.41	1.83	4.40
RLD90P025X	0.25	0.50	2.5	40	72/90	0.45	1.25	3.00
RLD90P030X	0.30	0.60	3.0	40	72/90	0.49	0.88	2.10
RLD90P035X	0.35	0.75	10.0	40	72/90	1.30	0.70	2.50
RLD90P040X	0.40	0.80	3.8	40	72/90	0.56	0.55	1.29
RLD90P050X	0.50	1.00	4.0	40	72/90	0.77	0.50	1.17
RLD90P055X	0.55	1.20	10.0	40	72/90	1.50	0.40	1.50
RLD90P065X	0.65	1.30	5.3	40	72/90	0.88	0.31	0.72
RLD90P075X	0.75	1.50	6.3	40	72/90	0.92	0.25	0.60
RLD90P090X	0.90	1.80	7.2	40	72/90	0.99	0.20	0.47
RLD90P0110X	1.10	2.20	8.2	40	72/90	1.50	0.15	0.38
RLD90P0135X	1.35	2.70	9.6	40	72/90	1.70	0.12	0.30
RLD90P0160X	1.60	3.20	11.4	40	72/90	1.90	0.09	0.22
RLD90P0185X	1.85	3.70	12.6	40	72/90	2.10	0.08	0.19
RLD90P0250X	2.50	5.00	15.6	40	72/90	2.50	0.05	0.13
RLD90P0300X	3.00	6.00	19.8	40	72/90	2.80	0.04	0.10
RLD90P0375X	3.75	7.50	24.0	40	72/90	3.20	0.03	0.08

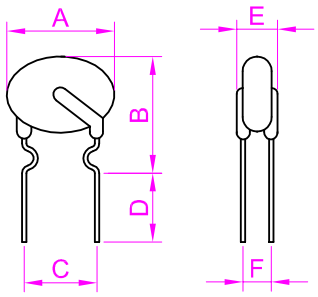
PROTECTRON ELECTROMECH (P) LTD

DESCRIPTION : RADIAL LEADED PTC RESETTABLE FUSE

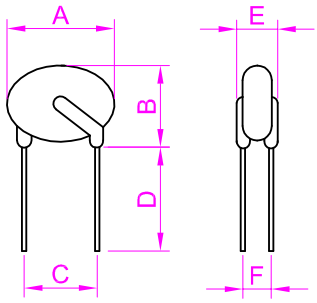
PART NO: RLD90P SERIES
(REFER TABLE)

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.).
Pd= Typical power dissipated from device when in tripped state in 23°C still air environment.
R_{MIN}= Minimum device resistance at 23°C.
$R1_{MAX}$= Maximum device resistance at 23°C, 1 hour after tripping.

3 Product Dimensions (millimeter):



RLD90P010X ~ RLD90P090X
Lead Size : 24AWG
ø 0.51mm



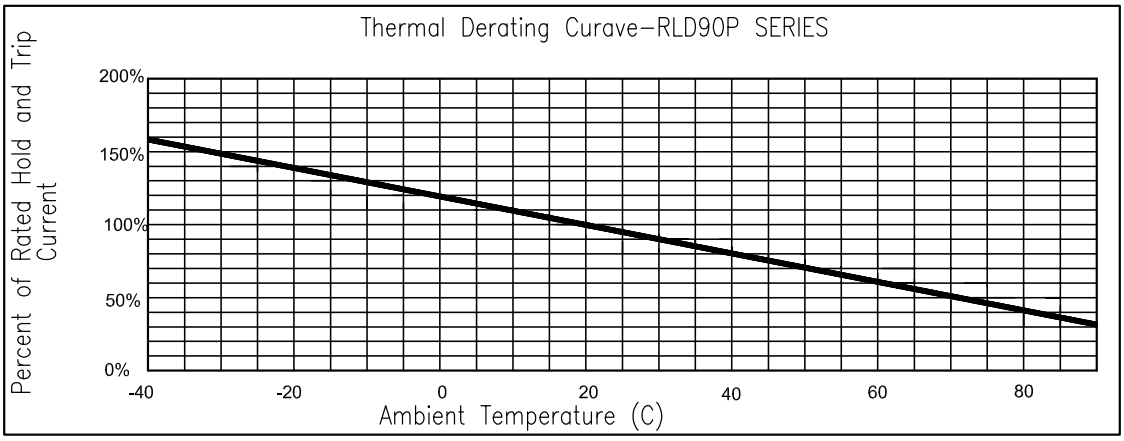
RLD90P110X ~ RLD90P375X
Lead Size : 20AWG
ø 0.81mm

PART NUMBER	A	B		D	E	F
	MAXIMUM	MAXIMUM	TYPICAL	MINIMUM	MAXIMUM	TYPICAL
RLD90P010X	7.4	12.7	5.1	7.6	3.1	1.1
RLD90P015X	7.4	12.7	5.1	7.6	3.1	1.1
RLD90P017X	7.4	12.7	5.1	7.6	3.1	1.1
RLD90P020X	7.4	12.7	5.1	7.6	3.1	1.1
RLD90P025X	7.4	12.7	5.1	7.6	3.1	1.1
RLD90P030X	7.4	13.0	5.1	7.6	3.1	1.1
RLD90P035X	7.4	12.7	5.1	7.6	3.1	1.1
RLD90P040X	7.6	13.5	5.1	7.6	3.1	1.1
RLD90P050X	7.9	13.7	5.1	7.6	3.1	1.1
RLD90P055X	9.7	14.0	5.1	7.6	3.1	1.1
RLD90P065X	9.7	14.5	5.1	7.6	3.1	1.1
RLD90P075X	10.4	15.2	5.1	7.6	3.1	1.1
RLD90P090X	11.7	15.8	5.1	7.6	3.1	1.1
RLD90P0110X	13.0	18.0	5.1	7.6	3.1	1.4
RLD90P0135X	14.5	19.6	5.1	7.6	3.1	1.4
RLD90P0160X	16.3	21.3	5.1	7.6	3.1	1.4
RLD90P0185X	17.8	22.9	5.1	7.6	3.1	1.4
RLD90P0250X	21.3	26.4	10.2	7.6	3.1	1.4
RLD90P0300X	24.9	30.0	10.2	7.6	3.1	1.4
RLD90P0375X	28.5	33.5	10.2	7.6	3.1	1.4

PROTECTRON ELECTROMECH (P) LTD

DESCRIPTION : RADIAL LEADED PTC RESETTABLE FUSE	PART NO: RLD90P SERIES (REFER TABLE)

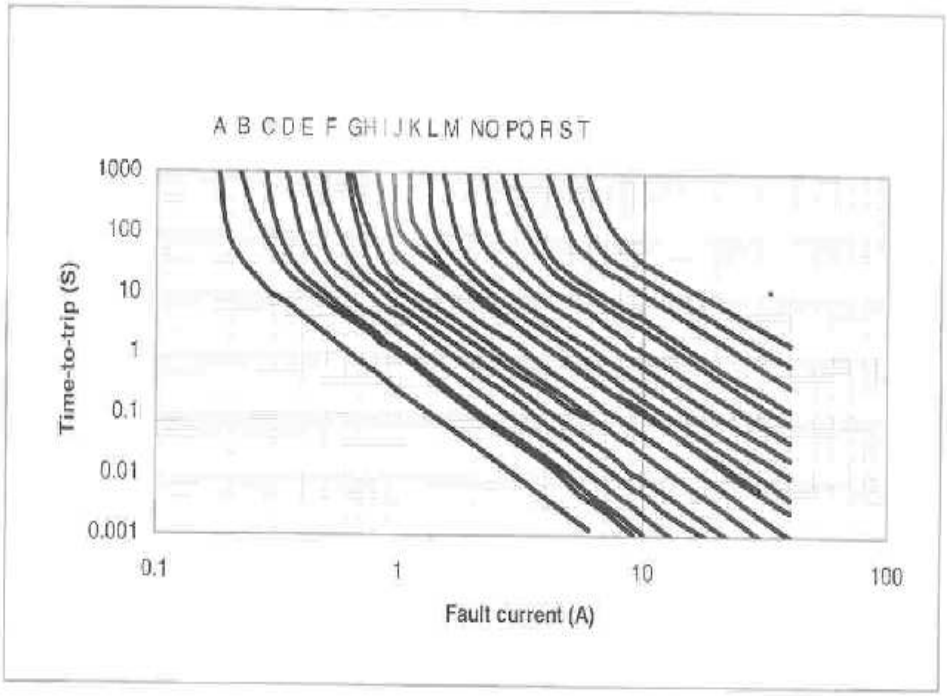
4.Thermal Derating Curve :



NOTE : Specification subject to change without notice.

5. Typical Time–To–Trip at 23°C

A= RLD90P010X
B= RLD90P015X
C= RLD90P017X
D= RLD90P020X
E= RLD90P025X
F= RLD90P030X
G= RLD90P035X
H= RLD90P040X
I= RLD90P050X
J= RLD90P055X
K= RLD90P065X
L= RLD90P075X
M= RLD90P090X
N= RLD90P0110X
O= RLD90P0135X
P= RLD90P0160X
Q= RLD90P0185X
R= RLD90P0250X
S= RLD90P0300X
T= RLD90P0375X



REV.	DESCRIPTION	DRN. BY	DATE	CK'ED BY	APP'D BY
A	ORIGINAL	ANIL	21.06.2008		

Projection:	Scale: NTS	Sht. Size: A4	Gen. Tol.: ±0.5mm ±1°	ALL DIMENSIONS ARE IN MM. IF UNLESS OTHERWISE SPECIFIED.

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PROTECTRON ELECTROMECH (P) LTD

DESCRIPTION : RADIAL LEADED PTC RESETTABLE FUSE

PART NO: RLD90P SERIES
(REFER TABLE)

6. Material Specification :

Lead Material : RLD90P010X ~ RLD90P90X Tin plated copper,24 AWG.

RLD90P110X ~ RLD90P375X Tin plated copper,20 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 intented 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

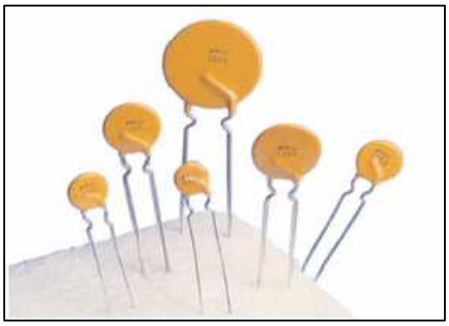
RLD90P SERIES

(REFER TABLE)

PROTECTRON ELECTROMECH (P) LTD

DESCRIPTION : RADIAL LEADED PTC RESETTABLE FUSE

PART NO: RLDPX SERIES
(REFER TABLE)



1.Summary

(a) Application: Wide variety of electronic equipments

(b) Product Features: Low hold current, Solid state, Radial leaded product ideal for up to 60V

(c) Operation Current: 100mA~3.75A

(d) Maximum Voltage: 60V

(e) Temperature Range:−40°C to 85°C

2. Agency Recognition

UL : File NO. E211981

C−UL : File No. E211981

TUV : File No. R50004084

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 it's 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.

NOTE : Specification subject to change without notice.

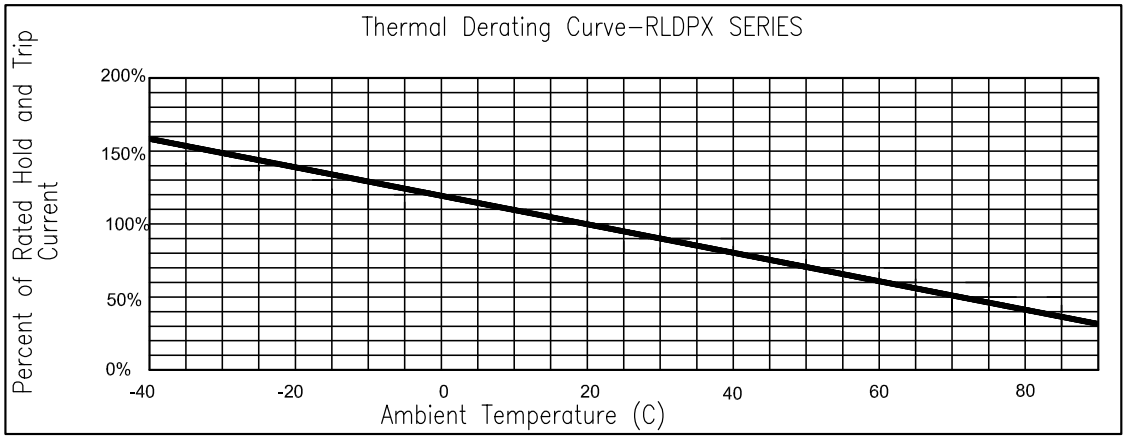
DESCRIPTION : RADIAL LEADED PTC RESETTABLE FUSE

PART NO: RLDPX SERIES
(REFER TABLE)

3. Electrical Characteristics (23°C)

PART NUMBER	HOLD CURRENT	TRIP CURRENT	MAX. TIME TO TRIP	MAX. CURRENT	RATED VOLTAGE	TYPICAL POWER	RESISTANCE TOLERANCE	
							Rmin.	R1max.
	IH,A	IT,A	AT5XIH	IMAX,A	VMAX,VDC	PD,W	ohms	ohms
RLD60P010X	0.10	0.20	4.0	40	60	0.38	2.50	7.50
RLD60P017X	0.17	0.34	3.0	40	60	0.48	2.00	7.00
RLD60P020X	0.20	0.40	2.2	40	60	0.41	1.83	4.40
RLD60P025X	0.25	0.50	2.5	40	60	0.45	1.25	3.00
RLD60P030X	0.30	0.60	3.0	40	60	0.49	0.88	2.10
RLD60P040X	0.40	0.80	3.80	40	60	0.56	0.55	1.29
RLD60P050X	0.50	1.00	4.0	40	60	0.77	0.50	1.17
RLD60P065X	0.65	1.30	5.3	40	60	0.88	0.31	0.72
RLD60P075X	0.75	1.50	6.3	40	60	0.92	0.25	0.60
RLD60P090X	0.90	1.80	7.2	40	60	0.99	0.20	0.47
RLD60P110X	1.10	2.20	8.2	40	60	1.50	0.15	0.38
RLD60P135X	1.35	2.70	9.6	40	60	1.70	0.12	0.30
RLD60P160X	1.60	3.20	11.4	40	60	1.90	0.09	0.22
RLD60P185X	1.85	3.70	12.6	40	60	2.10	0.08	0.19
RLD60P250X	2.50	5.00	15.6	40	60	2.50	0.05	0.13
RLD60P300X	3.00	6.00	19.8	40	60	2.80	0.04	0.10
RLD60P375X	3.75	7.50	24.0	40	60	3.20	0.03	0.08

4.Thermal Derating Curve :



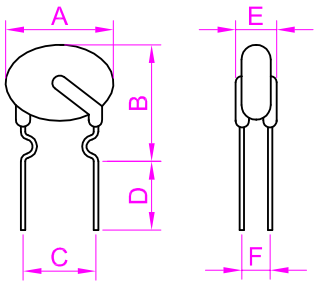
NOTE : Specification subject to change without notice.

PROTECTRON ELECTROMECH (P) LTD

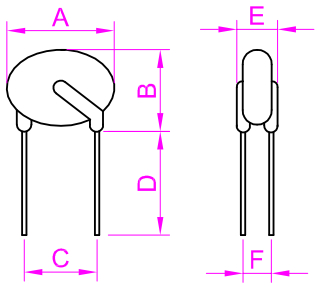
DESCRIPTION : RADIAL LEADED PTC RESETTABLE FUSE

PART NO: RLDPX SERIES
(REFER TABLE)

5. Production Dimensions (millimeter):



RLD60P010X ~ RLD60P090X
Lead Size : 24AWG
ø 0.51mm



RLD60P110X ~ RLD60P375X
Lead Size : 20AWG
ø 0.81mm

PART NUMBER	A	B	C	D	E	F
	MAXIMUM	MAXIMUM	TYPICAL	MINIMUM	MAXIMUM	TYPICAL
RLD60P010X	7.4	12.7	5.1	7.6	3.1	1.1
RLD60P017X	7.4	12.7	5.1	7.6	3.1	1.1
RLD60P020X	7.4	12.7	5.1	7.6	3.1	1.1
RLD60P025X	7.4	12.7	5.1	7.6	3.1	1.1
RLD60P030X	7.4	13.0	5.1	7.6	3.1	1.1
RLD60P040X	7.6	13.5	5.1	7.6	3.1	1.1
RLD60P050X	7.9	13.7	5.1	7.6	3.1	1.1
RLD60P065X	9.7	14.5	5.1	7.6	3.1	1.1
RLD60P075X	10.4	15.2	5.1	7.6	3.1	1.1
RLD60P090X	11.7	15.8	5.1	7.6	3.1	1.1
RLD60P110X	13.0	18.0	5.1	7.6	3.1	1.4
RLD60P135X	14.5	19.6	5.1	7.6	3.1	1.4
RLD60P160X	16.3	21.3	5.1	7.6	3.1	1.4
RLD60P185X	17.8	22.9	5.1	7.6	3.1	1.4
RLD60P250X	21.3	26.4	10.2	7.6	3.1	1.4
RLD60P300X	24.9	30.0	10.2	7.6	3.1	1.4
RLD60P375X	28.5	33.5	10.2	7.6	3.1	1.4

NOTE : Specification subject to change without notice.

REV.	DESCRIPTION	DRN. BY	DATE	CK'ED BY	APP'D BY
A	ORIGINAL	SACHIN	06.06.2003		

Projection:	Scale: NTS	Sht. Size: A4	Gen. Tol.: ±0.5mm ±1°	ALL DIMENSIONS ARE IN MM. IF UNLESS OTHERWISE SPECIFIED.

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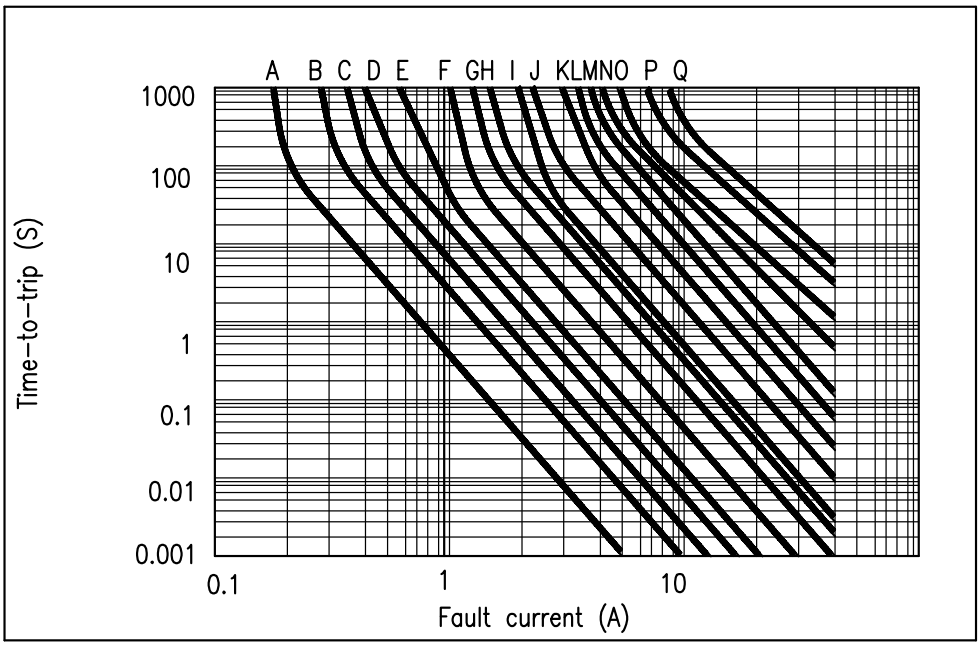
PROTECTRON ELECTROMECH (P) LTD

DESCRIPTION : RADIAL LEADED PTC RESETTABLE FUSE

PART NO: RLDPX SERIES
(REFER TABLE)

6. Typical Time-To-Trip at 23°C

A= RLD60P005X
B= RLD60P010X
C= RLD60P017X
D= RLD60P020X
E= RLD60P025X
F= RLD60P030X
G= RLD60P040X
H= RLD60P050X
I= RLD60P065X
J= RLD60P075X
K= RLD60P090X
L= RLD60P110X
M= RLD60P135X
N= RLD60P160X
O= RLD60P185X
P= RLD60P250X
Q= RLD60P300X
R= RLD60P375X



7. Material Specification :

Lead Material : RLD60P010X ~ RLD60P090X Tin plated copper,24 AWG.
RLD60P110X ~ RLD60P375X Tin plated copper,20 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 intented 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.

NOTE : Specification subject to change without notice.

ORDERING INFORMATION
RLDPX SERIES
(REFER TABLE)