

DESCRIPTION : RADIAL LEADED PTC, RoHS

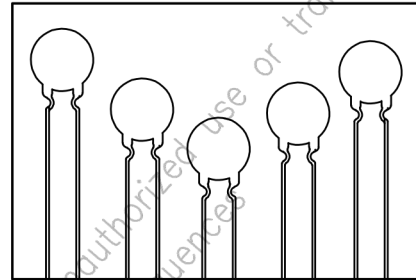
PART NO: RLD250 SERIES
(REFER TABLE)

RoHS



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 I _h ,a	Max. Current I _{m ax} ,A	Max. Oper. Voltage V _{o-max} ,Vdc	Max. Int. Voltage V _{i- m ax} ,V	Resistance Tolerance	
					R _{min} . ohms	R _{1max} . ohms
RLD250P080X-U	0.08	3.0	60	250	14.0	33.0
RLD250P080X	0.08	3.0	60	250	14.0	33.0
RLD250P110X-U	0.11	3.0	60	250	5.0	16.0
RLD250P110X	0.11	3.0	60	250	5.0	16.0
RLD250P120X-U	0.12	3.0	60	250	6.0	16.0
RLD250P120X	0.12	3.0	60	250	4.0	16.0
RLD250P145X-U	0.15	3.0	60	250	3.5	12.0
RLD250P145X	0.15	3.0	60	250	3.0	12.0
RLD250P180X-U	0.18	10.0	60	250	0.8	4.0
RLD250P180X	0.18	10.0	60	250	0.8	4.0
RLD600P150X	0.15	3.0	60	600	6.0	22.0
RLD600P160X	0.16	3.0	60	600	4.0	18.0

NOTE : Specification subject to change without notice.

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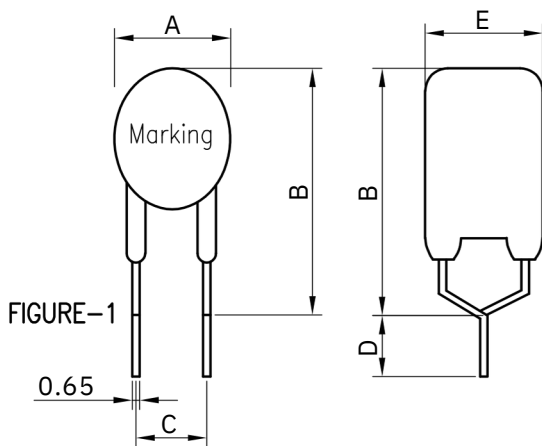
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I_h= Hold current—maximum current at which the device will not trip at 23°C still air.
I_t= Trip current—minimum current at which the device will always trip at 23°C still air.
V_{o-max}=Maximum voltage device can withstand without damage at it's rated current.
V_{i-max}= Maximum interrupt voltage device can withstand without for short period of time.
(Not for long term.)

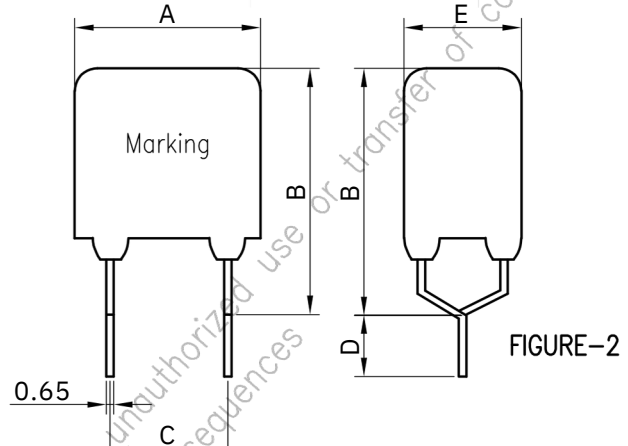
I_{max}=Maximum fault current device can withstand without damage at rated voltage (V max.).

R_{min}=Minimum device resistance at 23°C.

R_{1max}=Maximum device resistance at 23°C, 1 hour after tripping.



Lead Size : 22AWG,
Ø 0.65mm



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
RLD250P110X-U	1	5.3	9.4	5.0	4.7	3.8
RLD250P110X	1	5.8	9.9	5.0	4.7	4.6
RLD250P120X-U	2	6.0	10.0	5.0	4.7	3.8
RLD250P120X	2	6.5	11.0	5.0	4.7	4.6
RLD250P145X-U	2	6.0	10.0	5.0	4.7	3.8
RLD250P145X	2	6.5	11.0	5.0	4.7	4.6
RLD250P180X-U	2	10.4	12.6	5.0	4.7	3.8
RLD250P180X	2	10.0	13.6	5.0	4.7	4.6
RLD600P150X	2	13.5	12.6	5.0	4.7	6.0
RLD600P160X	2	16.0	12.6	5.0	4.7	6.0

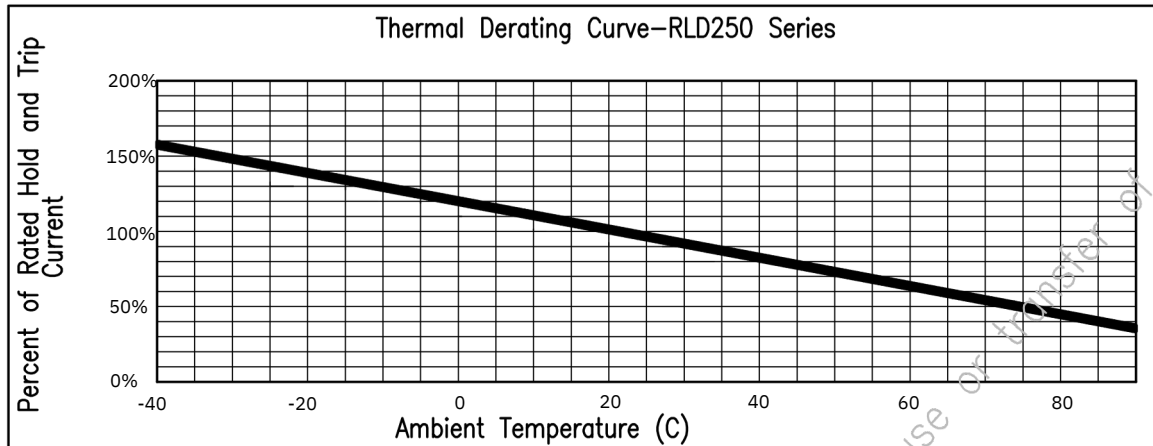
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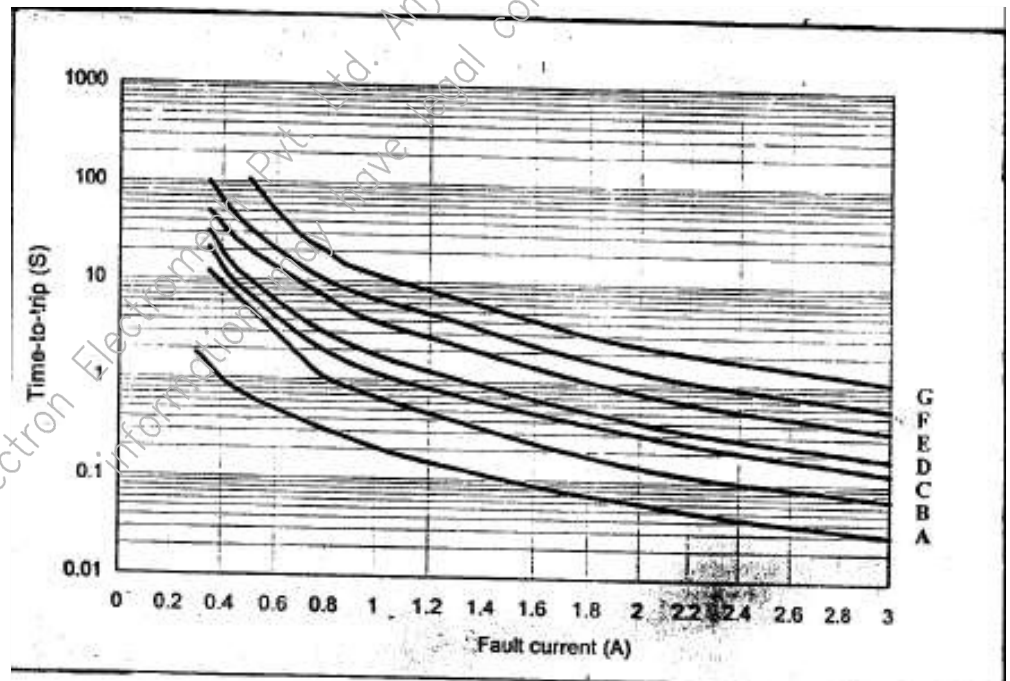
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Thermal Derating Curve :



Typical Time-To-Trip at 23°C

A=RLD250P080X-(U)
B=RLD250P110X-(U)
C=RLD250P120X-(U)
D=RLD250P145X-(U)
E=RLD250P180X-(U)
F=RLD600P150X
G=RLD600P160X



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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 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

RLD250 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.