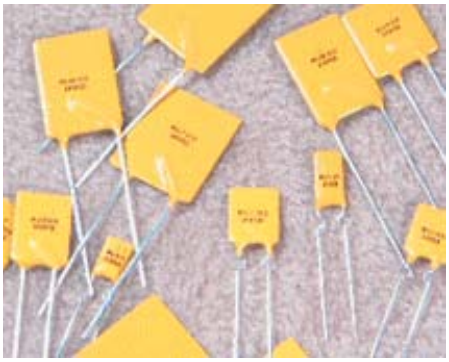
RU Series
Radial Leaded PTC

LEAD FREE
RoSH COMPLIANT



Application:	Wide variety of electronic equipment
Product Features:	Low resistance, High hold current, Solid state, Radial-leaded product ideal for up to 30V
Operation Current:	900mA~9A
Maximum Voltage:	30V
Temperature Range:	-40°C to 85°C
Agency Recognition:	UL, C-UL, TÜV

Electrical Characteristics (23°C)

Part Number	Hold Current	Trip Current	Max.Time to Trip	Maximum Current	Rated Voltage	Typical Power	Resistance Tolerance	
							RMIN	R1MAX
	IH, A	IT, A	at 5xIH	IMAX, A	VMAX,Vdc	Pd, W	ohms	ohms
RU090-30	0.90	1.8	5.9	40	30	0.6	0.070	0.22
RU110-30	1.10	2.2	6.6	40	30	0.7	0.050	0.17
RU110S-30	1.10	2.2	6.6	40	30	0.7	0.050	0.17
RU135-30	1.35	2.7	7.3	40	30	0.8	0.040	0.13
RU160-30	1.60	3.2	8.0	40	30	0.9	0.030	0.11
RU185-30	1.85	3.7	8.7	40	30	1.0	0.030	0.09
RU250-30	2.50	5.0	10.3	40	30	1.2	0.020	0.07
RU300-30	3.00	6.0	10.8	40	30	2.0	0.020	0.08
RU400-30	4.00	8.0	12.7	40	30	2.5	0.010	0.05
RU500-30	5.00	10.0	14.5	40	30	3.0	0.010	0.05
RU600-30	6.00	12.0	16.0	40	30	3.5	0.005	0.04
RU700-30	7.00	14.0	17.5	40	30	3.8	0.005	0.03
RU800-30	8.00	16.0	18.8	40	30	4.0	0.005	0.02
RU900-30	9.00	18.0	20.0	40	30	4.2	0.005	0.02

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.
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 the tripped state in 23°C still air environment.
RMIN=Minimum device resistance at 23°C.
R1MAX=Maximum device resistance at 23°C, 1 hour after tripping .
Physical specifications:
Lead material: RU090~RU250 Tin plated copper, 24 AWG.
RU300~RU900 Tin plated copper, 20 AWG.
Soldering characteristics: MIL-STD-202, Method 208E.
Insulating coating:Flame retardant epoxy, meet UL-94V-0 requirement.

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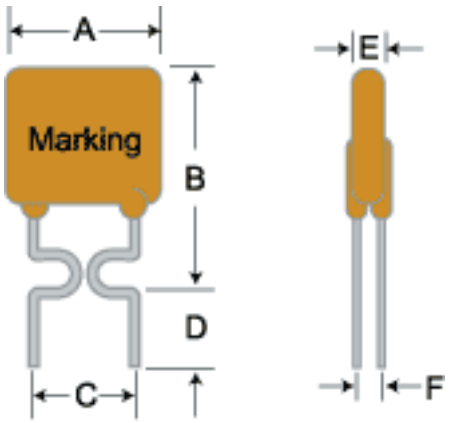
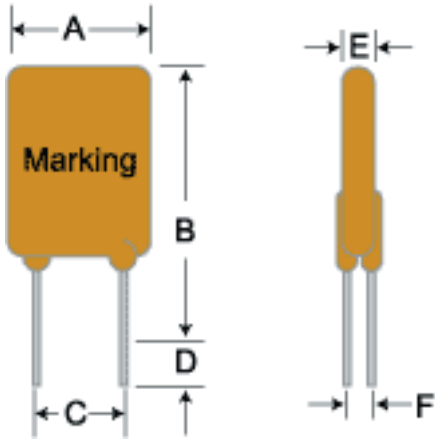
RU Product Dimensions (Millimeters)



RU090-30 ~ RU250-30
Lead Size: 24AWG,
Ø 0.51 mm Diameter



RU300-30 ~ RU900-30
Lead Size : 20AWG,
Ø 0.81 mm Diameter

Part Number	A	B	C	D	E	F
	Maximum	Maximum	Typical	Minimum	Maximum	Typical
RU090-30	7.4	12.2	5.1	7.6	3	0.9
RU110-30	7.4	14.2	5.1	7.6	3	0.9
RU110S-30	7.4	12.0	5.1	7.6	3	0.9
RU135-30	8.9	13.5	5.1	7.6	3	0.9
RU160-30	8.9	15.2	5.1	7.6	3	0.9
RU185-30	10.2	15.7	5.1	7.6	3	0.9
RU250-30	11.4	18.3	5.1	7.6	3	0.9
RU300-30	11.4	17.3	5.1	7.6	3	1.2
RU400-30	14.0	20.1	5.1	7.6	3	1.2
RU500-30	14.0	24.9	10.2	7.6	3	1.2
RU600-30	16.5	24.9	10.2	7.6	3	1.2
RU700-30	19.1	26.7	10.2	7.6	3	1.2
RU800-30	21.6	29.2	10.2	7.6	3	1.2
RU900-30	24.1	29.7	10.2	7.6	3	1.2

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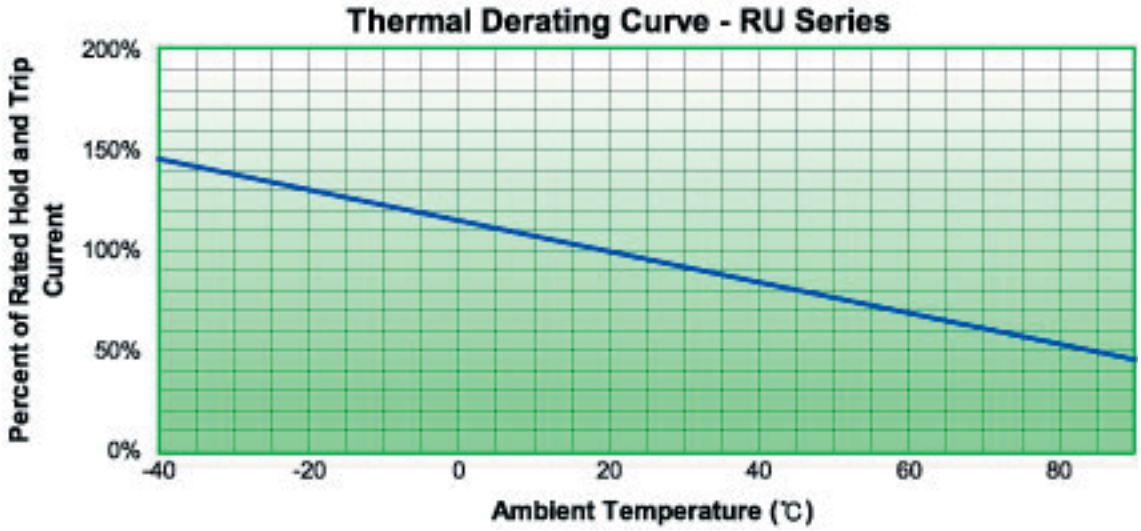
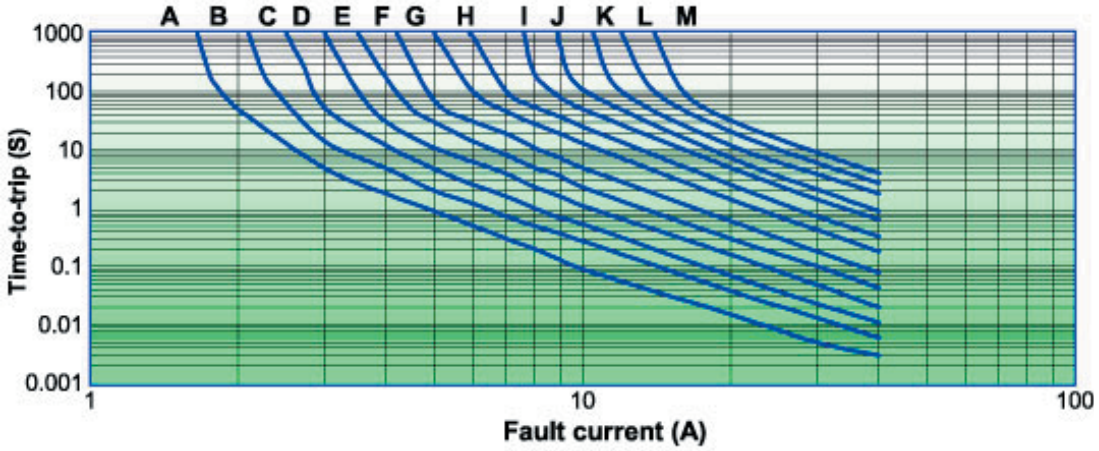
Thermal Derating Curve



Typical Time-To-Trip at 23°C

A = RU090-30
B = RU110-30/RU110S-30
C = RU130-30
D = RU160-30
E = RU185-30
F = RU250-30
G = RU300-30
H = RU400-30
I = RU500-30
J = RU600-30
K= RU700-30
L = RU800-30
M= RU900-30



Part Numbering System

RU ___ - ___

- Nil : Bulk / T : Tape & Reel
- Voltage Rating
- Current Rating

RU110F
34AC

Example

Part Marking System

RU ___ F

- PB-Free / RoHs Compliant
- Part Identification
- Product Family

___ ___

- Data Code/Lot Number

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Standard Package

P/N	Pcs /Bag	Reel/Tape
RU090-30	500	3K
RU110-30	500	3K
RU110S-30	500	3K
RU135-30	300	3K
RU160-30	300	3K
RU185-30	300	3K
RU250-30	300	3K
RU300-30	200	1.5K
RU400-30	200	1.5k
RU500-30	200	------
RU600-30	100	------
RU700-30	100	------
RU800-30	100	------
RU900-30	100	------

1- Operation beyond the specified maximum ratings or improper use may result in damage and possible electrical arcing and/or flame.
2 -PPTC device are intended for occasional overcurrent protection. Application for repeated overcurrent condition and/or prolonged trip are not anticipated.
3- Avoid contact of PPTC device with chemical solvent. Prolonged contact will damage the device performance.