RA Series
Radial Leaded PTC

LEAD FREE
RoSH COMPLIANT

Application:	Wide variety of electronic equipment
Product Features:	Low hold current, Solid state Radial-leaded product ideal for up to 120VDC/ 120VAC
Operation Current:	100mA~3.75A
Maximum Voltage:	120VDC/120VAC
Temperature Range:	-40°C to 85°C

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/VAC	Pd, W	ohms	ohms
RA010-120	0.10	0.20	4.0	2.0	120	0.57	2.50	7.50
RA017-120	0.17	0.34	3.0	2.0	120	0.59	2.00	7.00
RA020-120	0.20	0.40	2.2	2.0	120	0.62	1.83	4.40
RA025-120	0.25	0.50	2.5	3.0	120	0.68	1.25	3.00
RA030-120	0.30	0.60	3.0	3.0	120	0.74	0.88	2.10
RA040-120	0.40	0.80	3.8	3.0	120	0.84	0.55	1.29
RA050-120	0.50	1.00	4.0	3.0	120	1.16	0.50	1.17
RA065-120	0.65	1.30	5.3	3.0	120	1.32	0.31	0.72
RA075-120	0.75	1.50	6.3	5.0	120	1.38	0.25	0.60
RA090-120	0.90	1.80	7.2	5.0	120	1.49	0.20	0.47
RA110-120	1.10	2.20	8.2	5.0	120	2.25	0.15	0.38
RA135-120	1.35	2.70	9.6	8.0	120	2.55	0.12	0.30
RA160-120	1.60	3.20	11.4	8.0	120	2.85	0.09	0.22
RA185-120	1.85	3.70	12.6	8.0	120	3.15	0.08	0.19
RA250-120	2.50	5.00	15.6	12.0	120	3.75	0.05	0.13
RA300-120	3.00	6.00	19.8	15.0	120	4.20	0.04	0.10
RA375-120	3.75	7.50	24.0	15.0	120	4.80	0.03	0.08

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: Tin plated copper, 24 AW
Soldering characteristics: RA010~RA090 Tin plated copper, 22 AWG.
RA110~RA375 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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RA Product Dimensions (Millimeters)

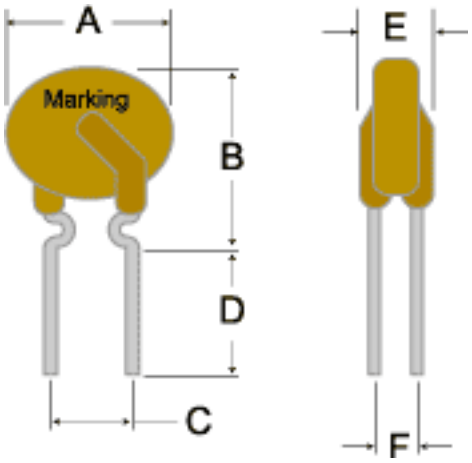

Figure 1
RA010-120 ~ RA090-120
Lead Size: 22AWG,
Ø 0.65 mm Diameter

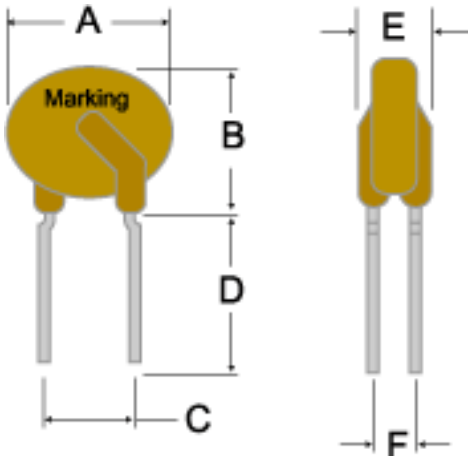

Figure 2
RA110-120 ~ RA375-120
Lead Size: 20AWG,
Ø 0.81 mm Diameter

Part Number	Figure	A	B	C	D	E	F
		Maximum	Maximum	Typical	Minimum	Maximum	Typical
RA010-120	1	7.9	12.7	5.1	7.6	5.0	3.0
RA017-120	1	7.9	12.7	5.1	7.6	5.0	3.0
RA020-120	1	7.9	12.2	5.1	7.6	5.0	3.0
RA025-120	1	7.9	12.7	5.1	7.6	5.0	3.0
RA030-120	1	7.9	13.0	5.1	7.6	5.0	3.0
RA040-120	1	8.2	14.2	5.1	7.6	5.0	3.0
RA050-120	1	9.2	14.9	5.1	7.6	5.0	3.0
RA065-120	1	9.7	14.9	5.1	7.6	5.0	3.0
RA075-120	1	10.6	15.5	5.1	7.6	5.0	3.0
RA090-120	1	11.9	15.9	5.1	7.6	5.0	3.0
RA110-120	2	13.3	18.3	5.1	7.6	5.0	3.0
RA135-120	2	15.5	20.6	5.1	7.6	5.0	3.0
RA160-120	2	17.5	22.5	5.1	7.6	5.0	3.0
RA185-120	2	19.9	24.9	5.1	7.6	5.0	3.0
RA250-120	2	22.5	27.5	10.2	7.6	5.0	3.0
RA300-120	2	25.5	30.0	10.2	7.6	5.0	3.0
RA375-120	2	29.5	34.0	10.2	7.6	5.0	3.0

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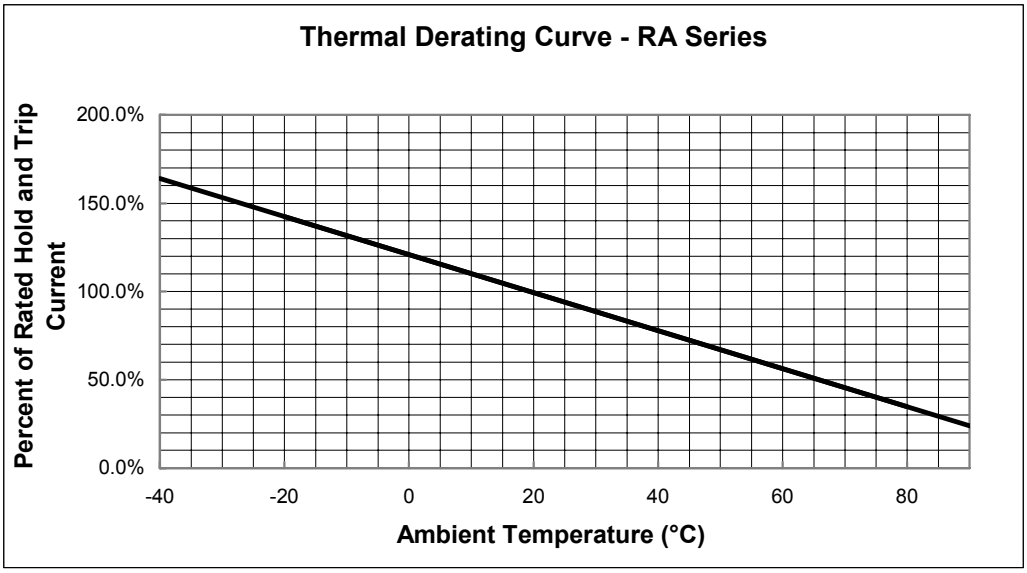
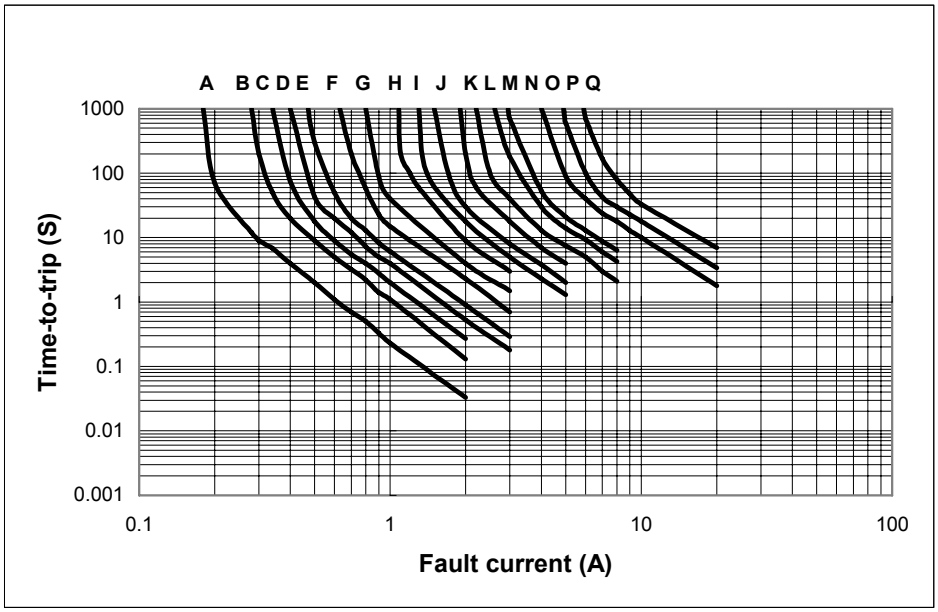
Thermal Derating Curve

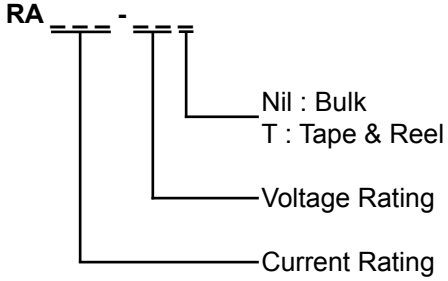


Typical Time-To-Trip at 23°C

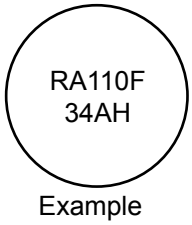
A = RA010-120
B = RA017-120
C = RA020-120
D = RA025-120
E = RA030-120
F = RA040-120
G = RA050-120
H = RA065-120
I = RA075-120
J = RA090-120
K = RA110-120
L = RA135-120
M = RA160-120
N = RA185-120
O = RA250-120
P = RA300-120
Q = RA375-120



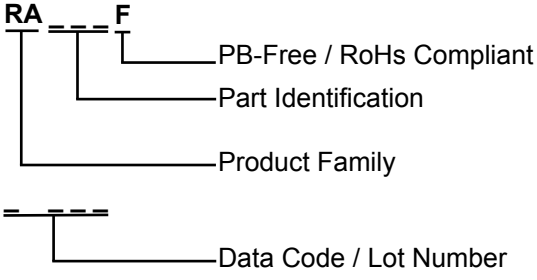
Part Numbering System



Part Marking System



Example



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Standard Package

P/N	Pcs /Bag	Reel/Tape
RA010-120	300	1.5K
RA017-120	300	1.5K
RA020-120	300	1.5K
RA025-120	300	1.5K
RA030-120	300	1.5K
RA040-120	300	1.5K
RA050-120	300	1.5K
RA065-120	300	1.5K
RA075-120	300	1.5K
RA090-120	300	1.5K
RA110-120	300	600
RA135-120	200	600
RA160-120	200	-----
RA185-120	200	-----
RA250-120	100	-----
RA300-120	100	-----
RA375-120	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.