RADIAL LEADED PTC

RA MODEL

E175689

50006513

FEATURES

- Radial Leaded, lower hold current, solid state
- Operation current 100mA~3.75A
- Maximum Voltage 60V
- Temperature range -40℃ to 85℃
- Cured, flame retardant epoxy polymer insulating material meets UL 94V-0 requirement
- Bulk packaging, tape and reel available on most models

APPLICATIONS

Ideal for low voltage power supply with a load to be protected:

- Computers & peripherals
- Security and fire alarm system
- General electronics
- Loud speakers
- Automotive applications
- Power transformers

PART NUMBERING SYSTEM

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ERF XX XXX XX X X X
 |   |   |   | | | |
 |   |   |   | | | +--- Z:RoHS Compliant
 |   |   |   | | +--- Special number:
 |   |   |   | |      0:Standard product
 |   |   |   | +--- Packing type:
 |   |   |   |      0:bulk
 |   |   |   |      2:tape & reel
 |   |   |   +--- Voltage rating: 60:60V
 |   |   +--- Current rating: 010:0.1A
 |   +--- Model:
 |        RA:Radial leaded devices, low hold current
 +--- Product Name: Resettable Fuse
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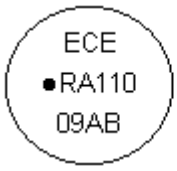
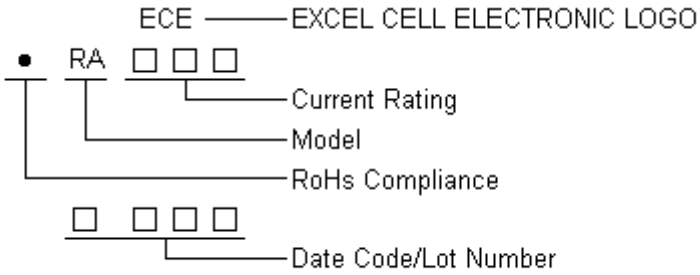
MARKING SYSTEM



Example



*If the current rating is under 1Amp there will be no "ECE" logo shown on the body.

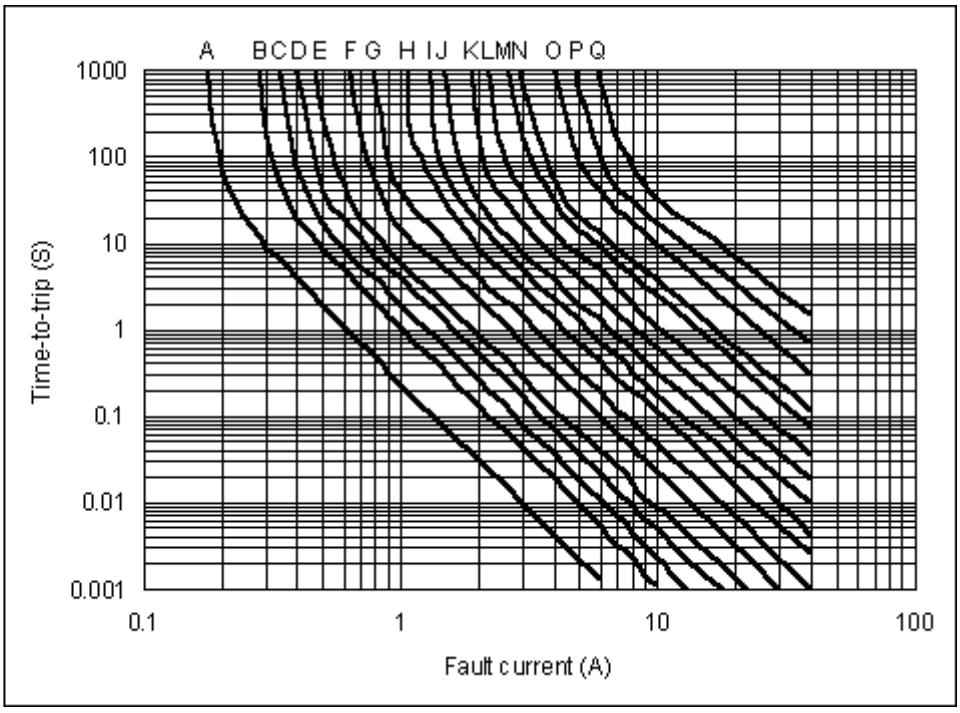
ELECTRICAL CHARACTERISTICS (23°C)

Part Number	Hold Current	Trip Current	Max. Time to trip	Maximum Current	Rated Voltage	Typical Power	Resistance Tolerance	
							R_{MIN}	$R1_{MAX}$
	I_H, A	I_T, A	at 5xI_H	I_{MAX}, A	V_{MAX}, Vdc	Pd, W	Ω	Ω
RA010-60	0.10	0.20	4.0	40	60	0.38	2.50	7.50
RA017-60	0.17	0.34	3.0	40	60	0.48	2.00	7.00
RA020-60	0.20	0.40	2.2	40	60	0.41	1.83	4.40
RA025-60	0.25	0.50	2.5	40	60	0.45	1.25	3.00
RA030-60	0.30	0.60	3.0	40	60	0.49	0.88	2.10
RA040-60	0.40	0.80	3.8	40	60	0.56	0.55	1.29
RA050-60	0.50	1.00	4.0	40	60	0.77	0.50	1.17
RA065-60	0.65	1.30	5.3	40	60	0.88	0.31	0.72
RA075-60	0.75	1.50	6.3	40	60	0.92	0.25	0.60
RA090-60	0.90	1.80	7.2	40	60	0.99	0.20	0.47
RA110-60	1.10	2.20	8.2	40	60	1.50	0.15	0.38
RA135-60	1.35	2.70	9.6	40	60	1.70	0.12	0.30
RA160-60	1.60	3.20	11.4	40	60	1.90	0.09	0.22
RA185-60	1.85	3.70	12.6	40	60	2.10	0.08	0.19
RA250-60	2.50	5.00	15.6	40	60	2.50	0.05	0.13
RA300-60	3.00	6.00	19.8	40	60	2.80	0.04	0.10
RA375-60	3.75	7.50	24.0	40	60	3.20	0.03	0.08

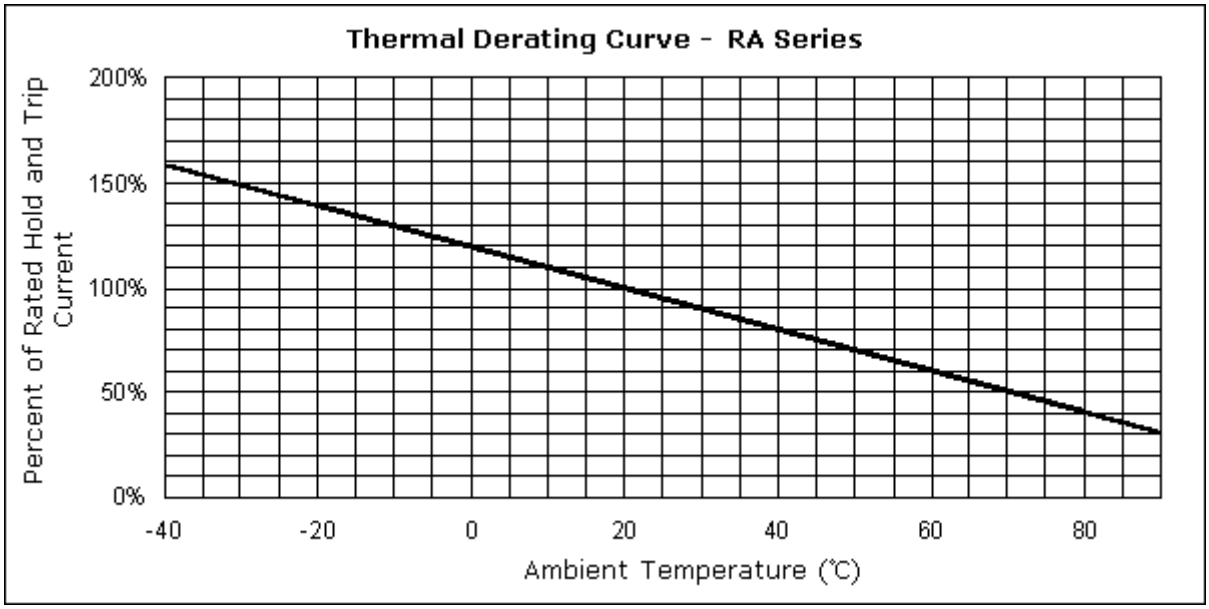
I_H=Hold current-maximum current at which the device will not trip at 23℃ still air.
I_T=Trip current-minimum current at which the device will always trip at 23℃ still air.
V_{MAX}=Maximum voltage device can withstand without damage at rated current.
I_{MAX}= Maximum fault current device can withstand without damage at rated voltage (V max).
Pd=Typical power dissipated from device when in the tripped state in 23℃ still air environment.
R_{MIN}=Minimum device resistance at 23℃.
$R1_{MAX}$=Maximum device resistance at 23℃ 1 hour after tripping.

Typical time-to-trip-at 23°C

A=RA010-60
B=RA017-60
C=RA020-60
D=RA025-60
E=RA030-60
F=RA040-60
G=RA050-60
H=RA065-60
I=RA075-60
J=RA090-60
K=RA110-60
L=RA135-60
M=RA160-60
N=RA185-60
O=RA250-60
P=RA300-60
Q=RA375-60

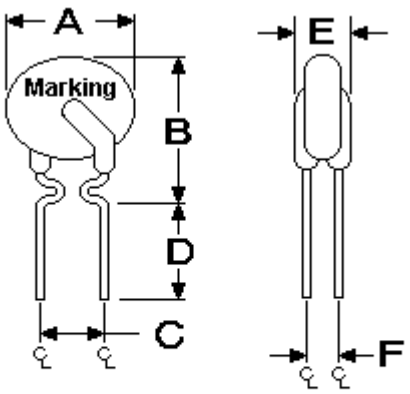


Thermal Derating Curve

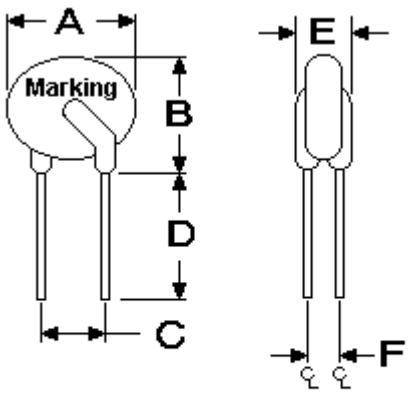


RA Product Dimensions (UNIT:mm)

Part Number	A	B	C	D	E	F
	Maximum	Maximum	Typical	Minimum	Maximum	Typical
RA-010-60	7.4	12.7	5.1	7.6	3.1	1.1
RA-017-60	7.4	12.7	5.1	7.6	3.1	1.1
RA-020-60	7.4	12.2	5.1	7.6	3.1	1.1
RA-025-60	7.4	12.7	5.1	7.6	3.1	1.1
RA-030-60	7.4	13.0	5.1	7.6	3.1	1.1
RA-040-60	7.6	13.5	5.1	7.6	3.1	1.1
RA-050-60	7.9	13.7	5.1	7.6	3.1	1.1
RA-065-60	9.7	14.5	5.1	7.6	3.1	1.1
RA-075-60	10.4	15.2	5.1	7.6	3.1	1.1
RA-090-60	11.7	15.8	5.1	7.6	3.1	1.1
RA-110-60	13.0	18.0	5.1	7.6	3.1	1.4
RA-135-60	14.5	19.6	5.1	7.6	3.1	1.4
RA-160-60	16.3	21.3	5.1	7.6	3.1	1.4
RA-185-60	17.8	22.9	5.1	7.6	3.1	1.4
RA-250-60	21.3	26.4	10.2	7.6	3.1	1.4
RA-300-60	24.9	30.0	10.2	7.6	3.1	1.4
RA-375-60	28.5	33.5	10.2	7.6	3.1	1.4



RA 010-60 ~ RA 090-60
- Lead Size: 24AWG
- Ø0.51 mm Diameter



RA 110-60 ~ RA 375-60
- Lead Size: 20AWG
- Ø0.81 mm Diameter

Note: Specifications subject to change without prior notice.