 EXCEL CELL ELECTRONIC CO., LTD. <small>An ISO 9001 Company</small>	NO.	A31006	PAGE 1/4
	SPECIFICATION		Edition

Resettable Fuse : RA Model

1. Features

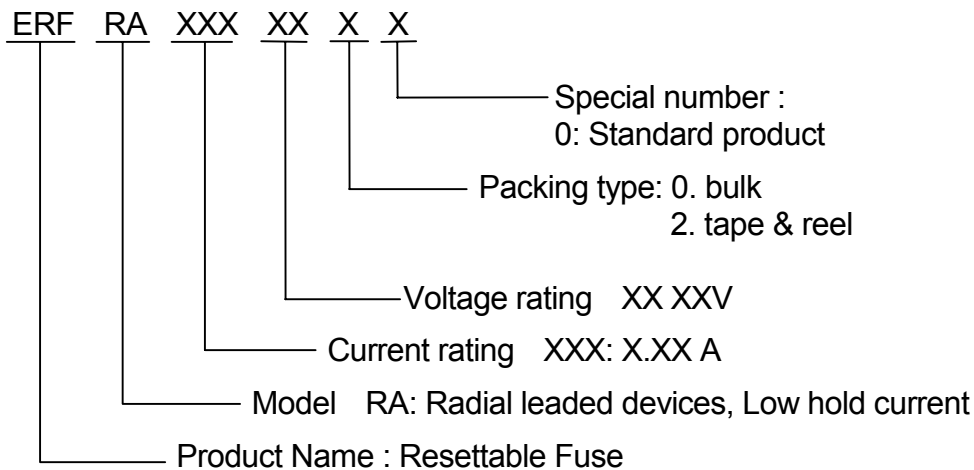
- 1-1 Radial Leaded Devices, Lower hold current ,solid state
- 1-2 Operation current 100mA~3.75A
- 1-3 Maximum Voltage 60V
- 1-4 Temperature range -40°C TO 85°C
- 1-5 Cured, flame retardant epoxy polymer insulating material meets UL 94V-0 requirement
- 1-6 Bulk packaging, tape and reel available on most models
- 1-7 Agency Approvals: UL E175689 & TUV R3-50006513

2. Applications

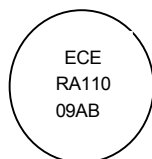
Ideal for low voltage power supply with a load to be protected :

- 2-1 Computers & peripherals
- 2-2 Security and fire alarm system
- 2-3 General electronics
- 2-4 Loud speakers
- 2-5 Automotive applications
- 2-6 Power transformers

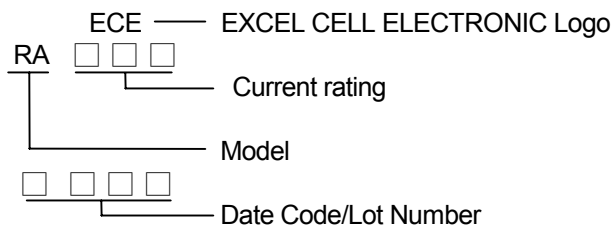
3. Part number system



4. Marking system



Example



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

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5. Electrical characteristics(23°C)

Part Number	Hold Current	Trip Current	Max.time To trip	Maximum Current	Rated Voltage	Typical Power	Resistance Tolerance	
	I _H ,A	I _T ,A	at 5xI _H	I _{MAX} ,A	V _{MAX} ,V	P _d ,W	R _{MIN}	R _{1MAX}
							□	□
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°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 rated current.

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

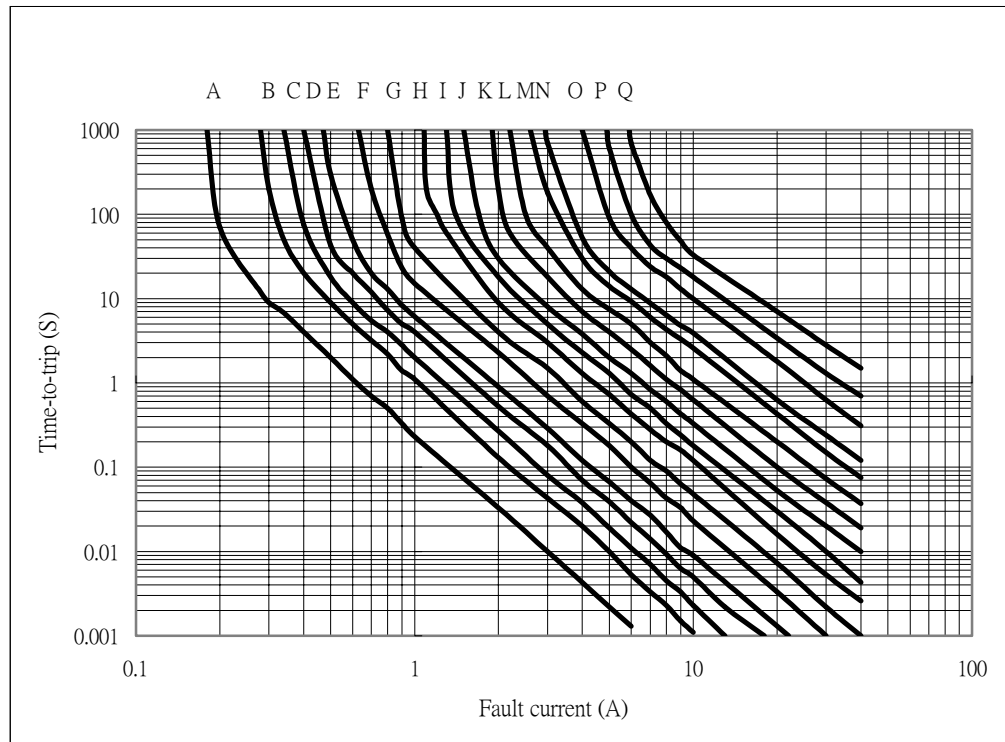
P_d=Typical power dissipated from device when in the tripped state in 23°C still air environment.

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

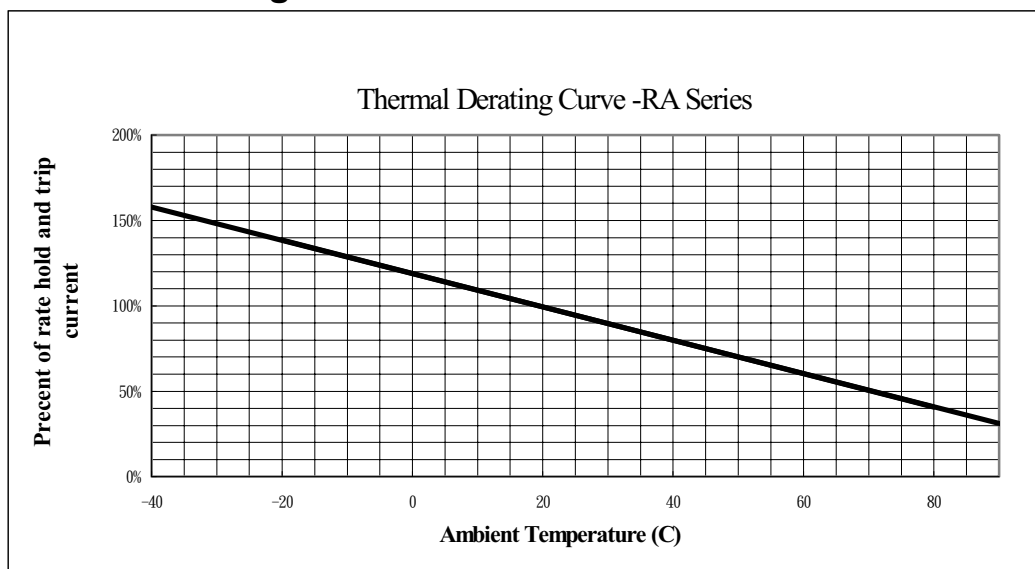
R_{1MAX}=Maximum device resistance at 23°C 1 hour after tripping .

6. 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



7. Thermal Derating Curve



8. Material and Physical specifications:

Lead material : RA010~RA090 Tin plated copper,24 AWG.

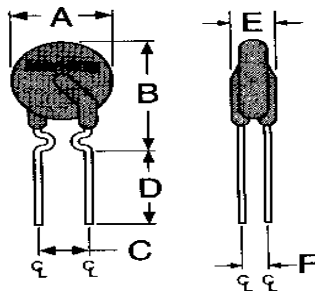
RA110~RA375 Tin plated copper,20 AWG.

Soldering characteristics:MIL-STD-202, Method 208E.

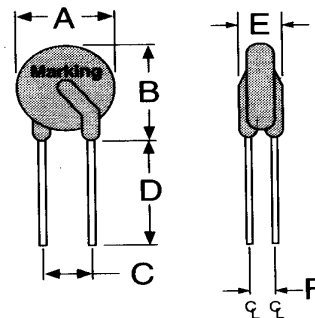
Insulating coating:Flame retardant epoxy ,meet UL-94V-O requirement.

9. RA Product Dimensions (millimeters)

Part Number	A	B	C	D	E	F
	Maximum	Maximum	Typical	Minimum	Maximum	Typical
RA010-60	7.4	12.7	5.1	7.6	3.1	1.1
RA017-60	7.4	12.7	5.1	7.6	3.1	1.1
RA020-60	7.4	12.2	5.1	7.6	3.1	1.1
RA025-60	7.4	12.7	5.1	7.6	3.1	1.1
RA030-60	7.4	13.0	5.1	7.6	3.1	1.1
RA040-60	7.6	13.5	5.1	7.6	3.1	1.1
RA050-60	7.9	13.7	5.1	7.6	3.1	1.1
RA065-60	9.7	14.5	5.1	7.6	3.1	1.1
RA075-60	10.4	15.2	5.1	7.6	3.1	1.1
RA090-60	11.7	15.8	5.1	7.6	3.1	1.1
RA110-60	13.0	18.0	5.1	7.6	3.1	1.4
RA135-60	14.5	19.6	5.1	7.6	3.1	1.4
RA160-60	16.3	21.3	5.1	7.6	3.1	1.4
RA185-60	17.8	22.9	5.1	7.6	3.1	1.4
RA250-60	21.3	26.4	10.2	7.6	3.1	1.4
RA300-60	24.9	30.0	10.2	7.6	3.1	1.4
RA375-60	28.5	33.5	10.2	7.6	3.1	1.4



- RA 010-60 ~ RA 090-60
- Lead Size : 24AWG
- □ 0.51 mm Diameter



- RA 110-60 ~ RA 375-60
- Lead Size : 20AWG
- □ 0.81 mm Diameter

10. Packing

P/N	Pcs/Bag	Reel /Tape
RA-010-60	500	3K
RA-017-60	500	3K
RA-020-60	500	3K
RA-025-60	500	3K
RA-030-60	500	3K
RA-040-60	500	3K
RA-050-60	500	3K
RA-065-60	300	3K
RA-075-60	300	3K

P/N	Pcs/Bag	Reel /Tape
RA-090-60	300	3K
RA-110-60	300	1.5K
RA-135-60	200	1.5K
RA-160-60	200	1.5K
RA-185-60	200	1.5K
RA-250-60	100	----
RA-300-60	100	----
RA-375-60	100	----