

Application:	Line voltage power supply, transformer and appliances.
Product Features:	Low hold current, solid state, radial leaded product ideal for up to 265V AC/DC.
Operation Current:	50mA ~ 2.0A
Maximum Operating Voltage:	240V AC/DC
Maximum Interrupt Voltage:	265V AC/DC
Temperature Range:	-40°C to 85°C
Agency Recognition:	UL, C-UL, TÜV (RV075-240 to RV200-240 pending)

### Electrical Characteristics (23°C)

Part Number	Hold Current	Trip Current	Max. Time to Trip	Maximum Current	Rated Voltage	Max. Interrupt Voltage	Typical Power	Resistance Tolerance	
								RMIN	R1MAX
	IH, A	IT, A	at 5xIH	IMAX, A	VMAX, VDC	VMAX, VDC	Pd, W	ohms	ohms
RV005-240	0.05	0.12	15.0	1.0	240	265	0.70	18.50	65.00
RV008-240	0.08	0.19	15.0	1.2	240	265	0.80	7.40	26.00
RV012-240	0.12	0.30	15.0	1.2	240	265	1.00	3.00	12.00
RV016-240	0.16	0.37	15.0	2.0	240	265	1.40	2.50	7.80
RV025-240	0.25	0.56	18.5	3.5	240	265	1.50	1.30	3.80
RV033-240	0.33	0.74	18.5	4.5	240	265	1.70	0.83	2.60
RV040-240	0.40	0.90	24.0	5.5	240	265	2.00	0.60	1.90
RV055-240	0.55	1.25	26.0	7.0	240	265	3.40	0.45	1.45
RV075-240	0.75	1.50	18.0	7.5	240	265	2.60	0.32	0.84
RV100-240	1.00	2.00	21.0	10.0	240	265	2.90	0.22	0.58
RV125-240	1.25	2.50	23.0	12.5	240	265	3.30	0.17	0.44
RV200-240	2.00	4.00	28.0	20.0	240	265	4.50	0.09	0.22

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: RV005-240 ~ RV016-240, Tin plated copper, 24AWG.

RV025-240 ~ RV040-240, Tin plated copper, 22AWG.

RV055-240 ~ RV200-240, Tin plated copper, 20AWG.

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

Insulating coating:Flame retardant epoxy, meet UL-94V-0 requirement.

### RV Product Dimensions (Millimeters)

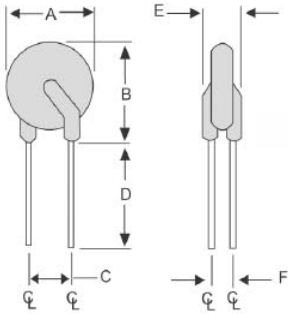


Figure 1  
Lead Size :24AWG,  
Ø 0.51 mm Diameter

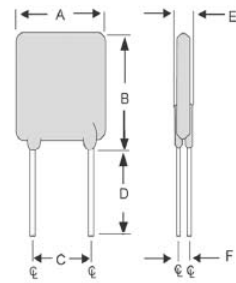


Figure 2  
Lead Size :22AWG,  
Ø 0.65 mm Diameter

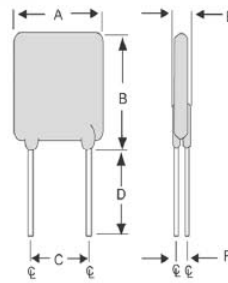


Figure 3  
Lead Size :240WG,  
Ø 0.81 mm Diameter

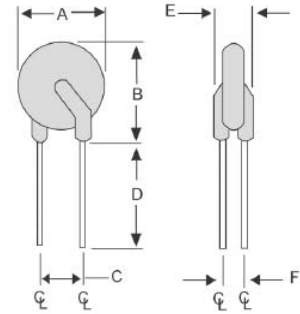
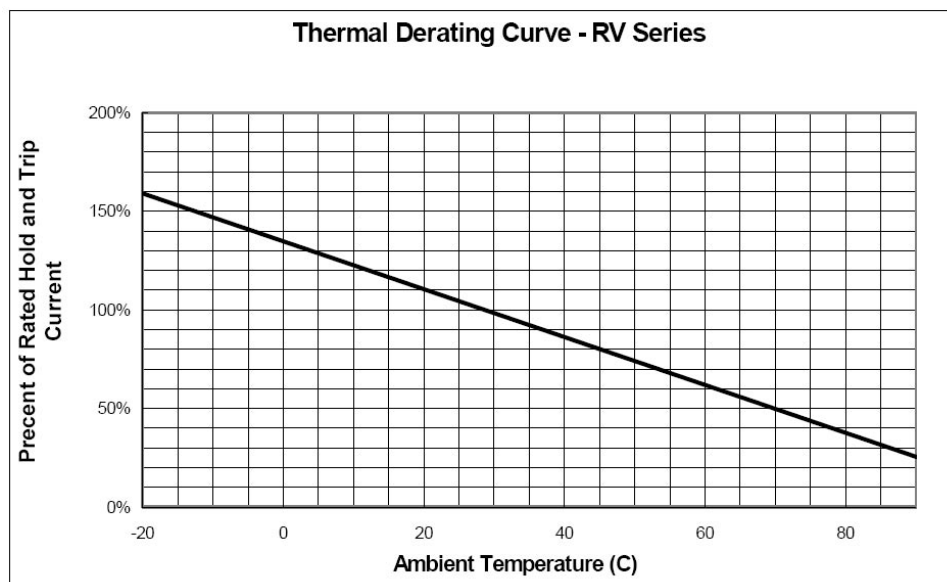


Figure 4  
Lead Size :20AWG,  
Ø 0.81 mm Diameter

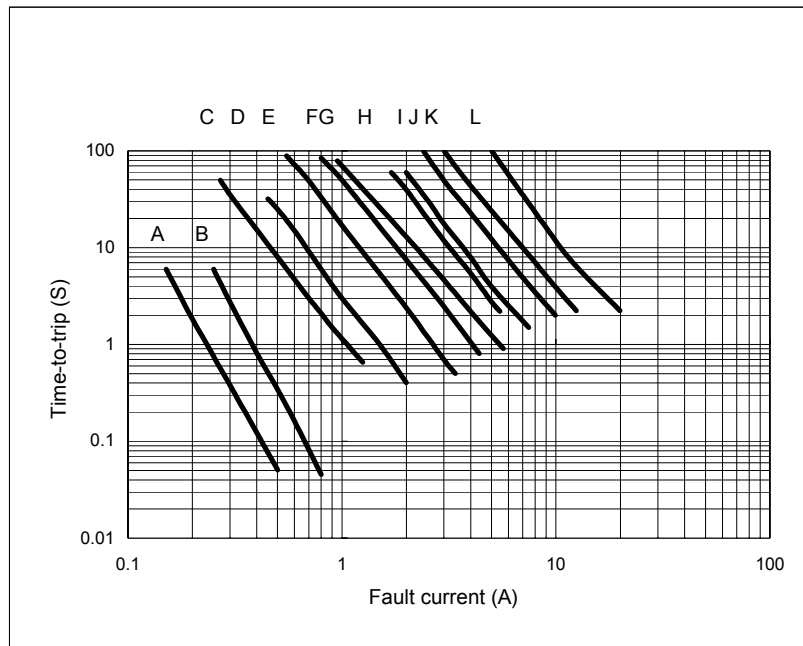
Part Number	Figure	A	B	C	D	E	F
		Maximum	Maximum	Typical	Minimum	Maximum	Typical
RV005-240	1	8.3	10.7	5.1	7.6	3.8	1.6
RV008-240	1	8.3	10.7	5.1	7.6	3.8	1.6
RV012-240	1	8.3	10.7	5.1	7.6	3.8	1.6
RV016-240	1	9.9	12.5	5.1	7.6	3.8	1.6
RV025-240	2	9.6	17.4	5.1	7.6	3.8	1.8
RV033-240	2	11.4	16.5	5.1	7.6	3.8	1.8
RV040-240	2	11.5	19.5	5.1	7.6	3.8	1.8
RV055-240	3	14.0	21.7	5.1	7.6	4.1	1.9
RV075-240	3	11.5	23.4	5.1	7.6	4.8	1.9
RV100-240	4	18.7	24.4	10.2	7.6	5.1	1.9
RV125-240	4	21.2	27.4	10.2	7.6	5.3	1.9
RV200-240	3	24.9	33.8	10.2	7.6	6.1	1.9

### Thermal Derating Curve



### Typical Time-To-Trip at 23°C

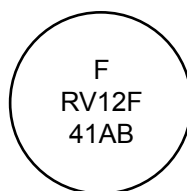
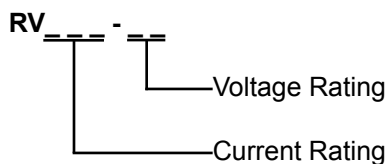
- A = RV005-240
- B = RV008-240
- C = RV012-240
- D = RV016-240
- E = RV025-240
- F = RV033-240
- G = RV040-240
- H = RV055-240
- I = RV075-240
- J = RV100-240
- K = RV125-240
- L = RV200-240



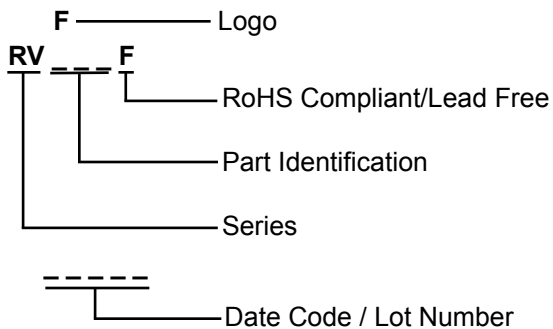
### Material Specification

- Lead material: RV005-240 ~ RV016-240 Tin plated copper, 24 AWG.
- RV025-240 ~ RV040-240 Tin plated copper, 22AWG.
- RV055-240 ~ RV200-240 Tin plated copper, 20AWG.
- Soldering characteristics: MIL-STD-202, Method 208E.
- Insulation coating: Flame retardant epoxy, meets UL-94V-0 requirement.

### Part Numbering System



### Part Marking System



- 1- Each product should be carefully evaluated and tested for their suitability of application.
- 2- O□
- 3 -PPTC device are intended for occasional overcurrent protection. Application for repeated overcurrent condition and/or prolonged trip are not anticipated.
- 4- Avoid contact of PPTC de□ damage the device performance.
- 5- Additional protecti□ conditions.
- 6- Avoid use of PP□ thermal expansion and/or contraction.