

Application:	Wide variety of electronic equipment
Product Features:	Solid state, Radial leaded product ideal for up to 60VDC. Reduced size, increased current up to 5.00A
Operation Current:	0.50A~5.00A
Maximum Voltage:	60VDC
Temperature Range:	-40°C to 85°C
Agency Recognition:	UL, C-UL and TÜV Pending

Electrical Characteristics (23°C)

Part Number	Hold Current	Trip Current	Max.Time to Trip		Maximum Current	Rated Voltage	Typical Power	Resistance Tolerance	
			I, A	Time, sec				R _{MIN}	R _{1MAX}
	I _H , A	I _T , A	I, A	Time, sec	I _{MAX} , A	V _{MAX} , Vdc	Pd, W	ohms	ohms
RK050-60F	0.50	1.00	8.00	0.8	40	60	1.00	0.320	0.900
RK065-60F	0.65	1.30	8.00	1.0	40	60	1.25	0.250	0.720
RK075-60F	0.75	1.50	8.00	1.5	40	60	1.40	0.200	0.640
RK090-60F	0.90	1.80	8.00	2.0	40	60	1.50	0.190	0.520
RK110-60F	1.10	2.20	8.00	3.0	40	60	2.20	0.170	0.470
RK135-60F	1.35	2.70	8.00	4.5	40	60	2.30	0.110	0.370
RK160-60F	1.60	3.20	8.20	9.0	40	60	2.40	0.100	0.320
RK185-60F	1.85	3.70	9.25	12.6	40	60	2.60	0.060	0.250
RK250-60F	2.50	5.00	12.50	15.6	40	60	2.80	0.040	0.140
RK300-60F	3.00	6.00	15.00	19.8	40	60	3.20	0.030	0.080
RK375-60F	3.75	7.50	18.75	22.0	40	60	3.40	0.017	0.060
RK400-60F	4.00	8.00	20.00	24.0	40	60	3.70	0.014	0.060
RK500-60F	5.00	10.00	25.00	28.0	40	60	5.00	0.012	0.050

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 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 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 .

Physical specifications:

Lead material: RK050-60F~RK090-60F Tin plated copper, 24 AWG.

RK110-60F~RK500-60F Tin plated copper, 20 AWG.

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

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

RK Product Dimensions (Millimeters)

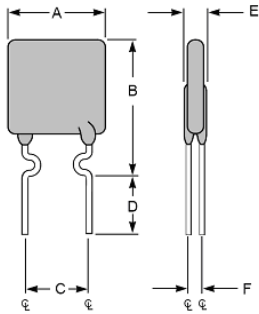


Figure 1
RK050-60F ~ RK090-60F
Lead Size: 24AWG
Φ0.51mm Diameter

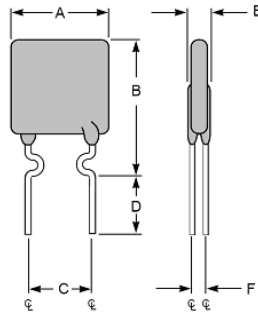


Figure 2
RK110-60F
Lead Size: 20AWG
Φ0.81mm Diameter

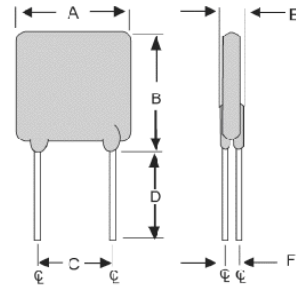
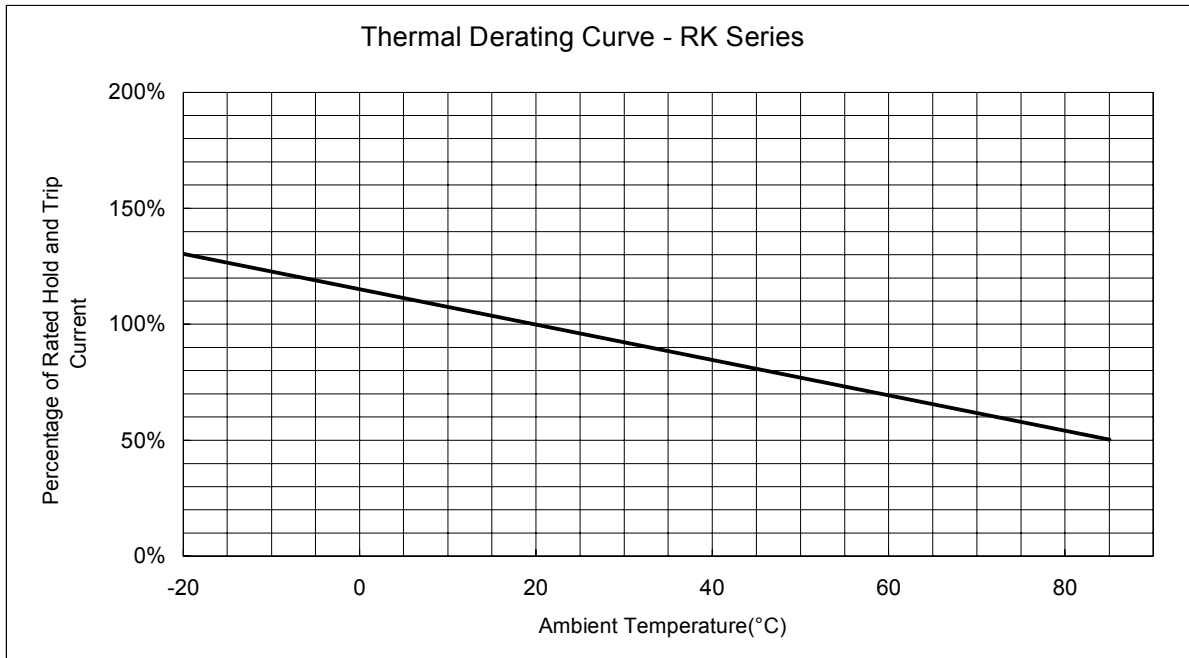


Figure 3
RK135-60F ~ RK500-60F
Lead Size: 20AWG
Φ0.81mm Diameter

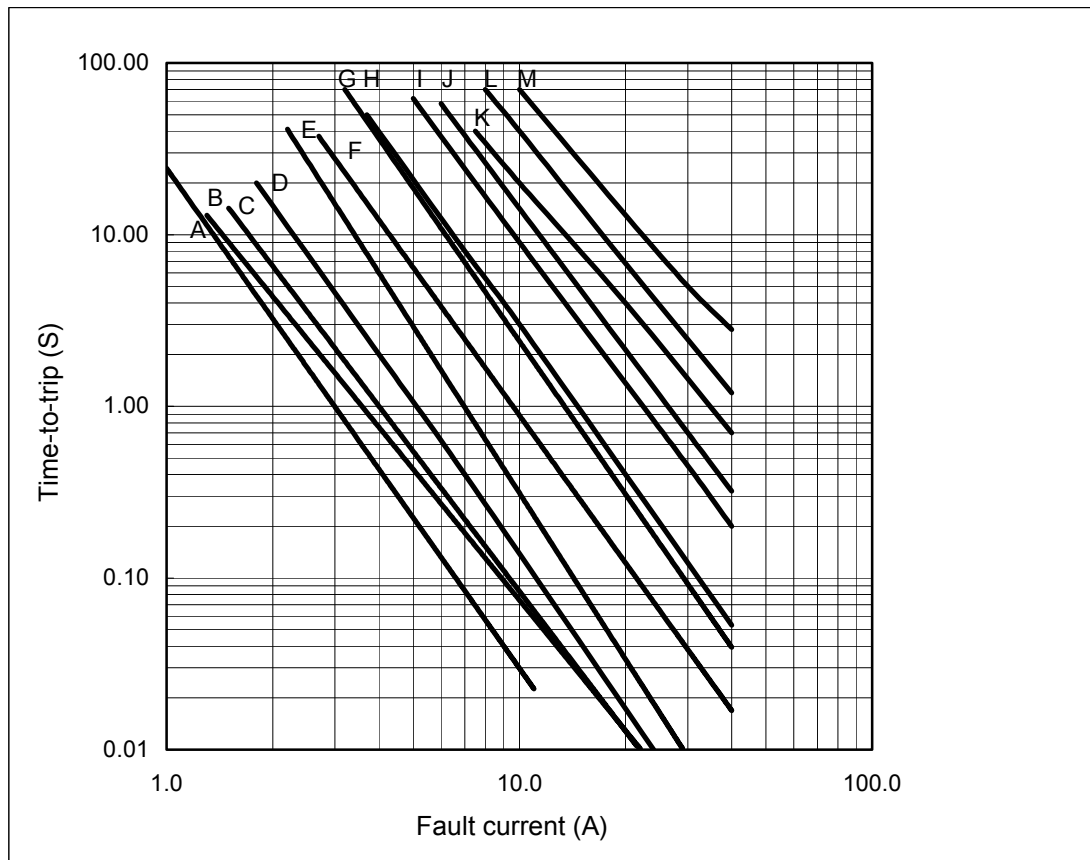
Part Number	Figure	A	B	C	D	E	F
		Maximum	Maximum	Typical	Minimum	Maximum	Typical
RK050-60F	1	7.10	11.43	5.1	7.6	3.56	1.1
RK065-60F	1	7.11	12.20	5.1	7.6	3.56	1.1
RK075-60F	1	7.87	12.20	5.1	7.6	3.56	1.1
RK090-60F	1	7.87	13.97	5.1	7.6	3.56	1.1
RK110-60F	2	7.60	15.00	5.1	7.6	4.10	1.4
RK135-60F	3	10.20	17.00	5.1	7.6	3.81	1.4
RK160-60F	3	12.20	18.30	5.1	7.6	3.81	1.4
RK185-60F	3	13.00	18.80	5.1	7.6	3.81	1.4
RK250-60F	3	14.00	20.60	5.1	7.6	3.00	1.4
RK300-60F	3	16.50	21.20	5.1	7.6	3.00	1.4
RK375-60F	3	16.50	25.20	5.1	7.6	3.00	1.4
RK400-60F	3	21.00	24.90	10.2	7.6	3.00	1.4
RK500-60F	3	24.10	29.00	10.2	7.6	3.00	1.4

Thermal Derating Curve



Typical Time-To-Trip at 23°C

- A = RK050-60F
- B = RK065-60F
- C = RK075-60F
- D = RK090-60F
- E = RK110-60F
- F = RK135-60F
- G = RK160-60F
- H = RK185-60F
- I = RK250-60F
- J = RK300-60F
- K = RK375-60F
- L = RK400-60F
- M = RK500-60F

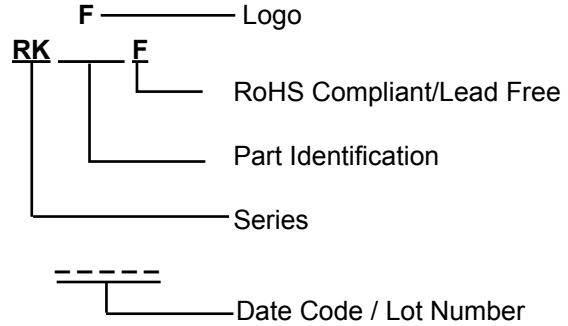
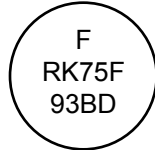
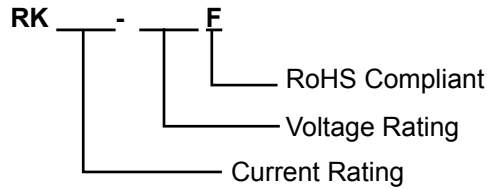




RK Series

Radial Leaded PTC

Part Numbering System



Standard Package

Part #	Pcs/Bag	Reel/Tape
RK050-60F	500	3K
RK065-60F	300	3K
RK075-60F	300	3K
RK090-60F	300	1.5K
RK110-60F	300	1.5K
RK135-60F	200	1.5K
RK160-60F	200	1.5K
RK185-60F	200	1.5K
RK250-60F	100	800
RK300-60F	100	600
RK375-60F	100	600
RK400-60F	100	600
RK500-60F	100	600

- 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.