

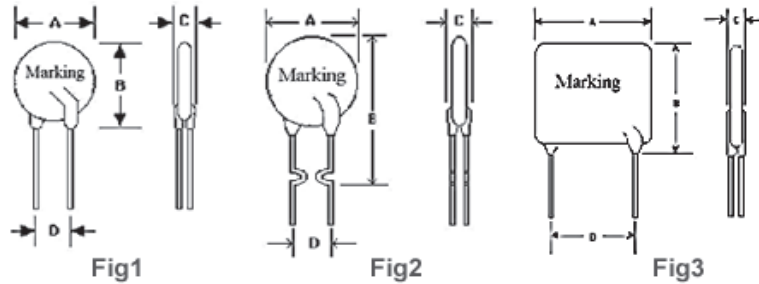
Features

- Radial leaded Devices
- Cured, flame retardant epoxy polymer insulating material meets UL94V-0 requirements
- Bulk packaging, or tape and reel available on most models

Applications

Almost anywhere there is a low voltage power supply, up to DC30V and a load to be protected, including:

- Automotive electronics
- Medical products
- Industrial controls



Product dimensions (mm)

Model	Fig	A(max)	B(max)	C(max)	D(typ)
K60-005	1(2)	5.0	8.5	3	5.1
K60-010	1(2)	5.5	9.5	3	5.1
K60-017	1(2)	7.4	12.7	3	5.1
K60-020	1(2)	7.4	12.7	3	5.1
K60-025	1(2)	7.4	12.7	3	5.1
K60-030	1(2)	7.4	13.0	3	5.1
K60-040	2	7.8	16.2	3	5.1
K60-050	2	7.8	16.2	3	5.1
K60-065	2	9.7	17.8	3	5.1
K60-075	2	10.4	18.4	3	5.1
K60-090	2	11.7	18.4	3	5.1
K60-110Y	1	13.0	18.0	3	5.1
K60-110F	3	13.0	18.0	3	5.1
K60-135	1	14.5	19.6	3	5.1
K60-160	1	16.3	21.3	3	5.1
K60-185	1	17.8	22.9	3	5.1
K60-200	1	17.8	22.9	3	5.1
K60-250	1	21.3	26.4	3	10.2
K60-300	1	21.3	26.4	3	10.2
K60-375	1	28.5	33.5	3	10.2
K60-500	1	28.5	33.5	3	10.2

Physical Characteristics

Material:Leads

K60-005~030	Tin plated copper,22AWG0.60mm or Tin-plated nickel-copper alloy,24AWG0.50mm
K60-040~090	Tin plated copper,22AWG,0.60mm
K60-300~500	Tin plated copper,20AWG,0.80mm

Environmental Specifications

Test	conditions	Resistance change
Passive aging	+85°C,100hts	±8% typical
Humidity aging	+85°C,85%R.H.,100hrs	±8% typical
Thermal shock	+125°C,to-55°C,10times	±12% typical
Resistance to solvent	MIL-STD-202,Method 215	No change
Vibration	MIL-STD-202,Method 201	No change

Storage conditions:-40°C to 85°C

Electrical characteristics(25°C)

Part number	Ihold	Itrip	Vmax	Imax	Pd max	Maximum Time To Trip		Resistance		
						Current	Time	Rmin	Rmax	R1max
	(A)	(A)	(Vdc)	(A)	(w)	(A)	(S)	(Ω)	(Ω)	(Ω)
K60-005	0.05	0.10	60	40	0.30	0.25	5	7.30	20.00	30.00
K60-010	0.10	0.20	60	40	0.38	0.50	5	2.50	7.50	12.00
K60-017	0.17	0.34	60	40	0.48	0.85	5	2.00	5.21	8.00
K60-020	0.20	0.40	60	40	0.41	1.00	5	1.50	2.84	4.49
K60-025	0.25	0.50	60	40	0.45	1.25	5	1.00	1.95	3.00
K60-030	0.30	0.60	60	40	0.49	1.50	5	0.76	1.38	2.20
K60-040	0.40	0.80	60	40	0.56	2.00	5	0.55	0.88	1.40
K60-050	0.50	1.00	60	40	0.77	2.50	5	0.50	0.79	1.20
K60-065	0.65	1.30	60	40	0.88	3.25	5	0.31	0.50	0.74
K60-075	0.75	1.50	60	40	0.92	3.75	5	0.25	0.42	0.62
K60-090	0.90	1.80	60	40	0.99	4.50	5	0.20	0.33	0.49
K60-110Y	1.10	2.20	60	40	0.15	5.50	8	0.15	0.27	0.40
K60-110F	1.10	2.20	60	40	0.15	5.50	8	0.15	0.27	0.40
K60-135	1.35	2.70	60	40	0.12	6.75	8	0.12	0.21	0.32
K60-160	1.60	3.20	60	40	0.09	8.00	8	0.09	0.16	0.24
K60-185	1.85	3.70	60	40	0.08	9.25	8	0.08	0.14	0.21
K60-200	2.00	4.00	60	40	0.07	10.00	8	0.07	0.14	0.21
K60-250	2.50	5.00	60	40	0.05	12.50	8	0.05	0.10	0.15
K60-300	3.00	6.00	60	40	0.04	15.00	8	0.04	0.08	0.12
K60-375	3.75	7.50	60	40	0.03	18.75	24	0.03	0.06	0.10
K60-500	5.00	10.00	60	40	0.02	25.00	24	0.02	0.06	0.10

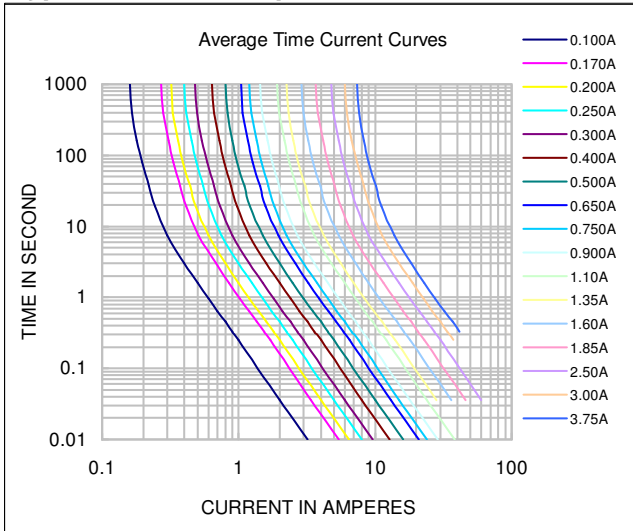
- Ihold Hold Current:Maximum current device will not trip in 25°C still air.
- Itrip Trip current:Minimum current at which the device will always trip in 25°C still air
- Vmax Maximum operating volatge device can withstand without damage at ratde current(imax).
- Imax Maximum fault current device can withstand without damage at rated voltage(Vmax).
- Pd Typical power dissipatde from device when in the tripped state in 25°C still air.
- Rmin/max Minimum/Maximum device resistance prior to tripping at 25°C .
- R1max Maximum resistance of device at 25°C measured one hour after trippde tripping.

*CAUTION Operation beyond the specified rating may result in damage and possible arcing.

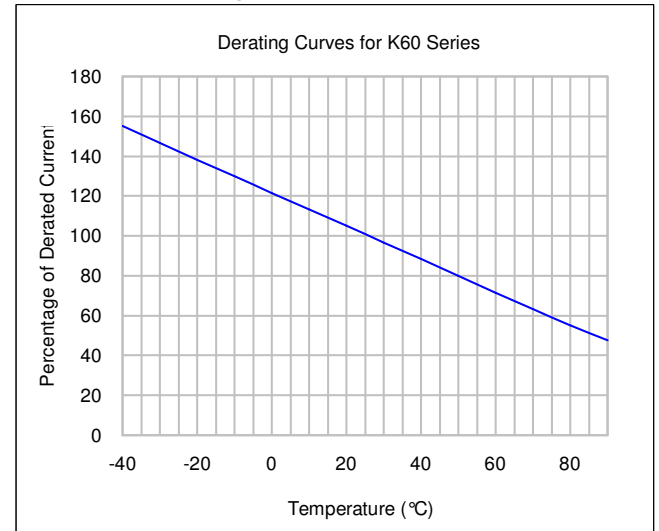
Thermal Derating Chart-IH(A)

Part number	Maximum ambidnt operating temperatures(°C)									
	-40	-20	0	25	40	50	60	70	80	
K60-005	0.077	0.069	0.061	0.050	0.044	0.040	0.036	0.032	0.025	
K60-010	0.18	0.15	0.13	0.10	0.08	0.07	0.06	0.05	0.03	
K60-017	0.28	0.24	0.20	0.17	0.14	0.12	0.10	0.09	0.06	
K60-020	0.34	0.29	0.25	0.20	0.16	0.14	0.13	0.10	0.07	
K60-025	0.42	0.36	0.31	0.25	0.20	0.18	0.16	0.12	0.09	
K60-030	0.52	0.44	0.38	0.30	0.24	0.22	0.18	0.14	0.10	
K60-040	0.66	0.57	0.50	0.40	0.32	0.29	0.24	0.20	0.14	
K60-050	0.83	0.74	0.63	0.50	0.41	0.36	0.30	0.25	0.18	
K60-065	1.10	0.95	0.82	0.65	0.53	0.47	0.40	0.33	0.24	
K60-075	1.26	1.11	0.95	0.75	0.61	0.54	0.45	0.39	0.28	
K60-090	1.52	1.30	1.15	0.90	0.73	0.65	0.55	0.47	0.33	
K60-110Y	1.82	1.60	1.35	1.10	0.90	0.79	0.65	0.55	0.40	
K60-110F	1.82	1.60	1.35	1.10	0.90	0.79	0.65	0.55	0.40	
K60-135	2.20	1.91	1.65	1.35	1.09	0.96	0.80	0.68	0.50	
K60-160	2.60	2.30	1.95	1.60	1.30	1.13	1.00	0.80	0.60	
K60-185	3.00	2.63	2.30	1.85	1.50	1.33	1.12	0.92	0.67	
K60-200	3.21	2.72	2.38	2.00	1.62	1.44	1.26	1.08	0.80	
K60-250	4.05	3.58	3.02	2.50	2.02	1.80	1.55	1.30	0.90	
K60-300	4.82	4.16	3.62	3.00	2.43	2.16	1.85	1.50	1.09	
K60-375	6.02	5.19	4.50	3.75	3.02	2.68	2.30	1.95	1.39	
K60-500	8.00	6.80	5.95	5.00	4.05	3.60	3.15	2.70	2.00	

Typical Time-To-Trip Curve At 25°C



Thermal Derating Curve



Package Information

Bulk:

K60-005~110Y	1000pcs per bag
K60-110F~300	500pcs per bag
k60-375~500	200pcs per bag