

**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:
- Personal computer
  - Toys
  - Industrial controls

**Dimensions (mm)**

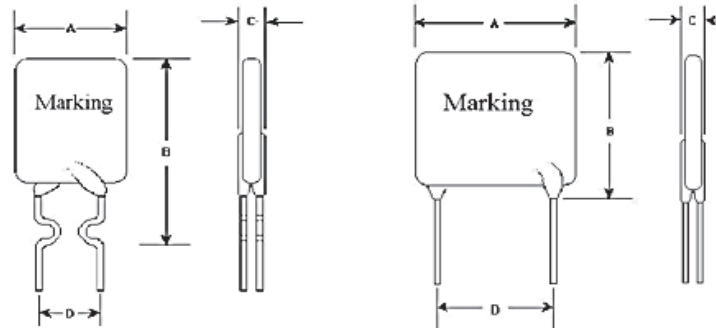


Fig1

Fig2

**Product dimensions (mm)**

Model	Fig	A(max)	B(max)	C(max)	D(typ)
K30-090	1	7.4	18.5	3	5.1
K30-110	1	7.4	18.5	3	5.1
K30-120	1	7.4	18.5	3	5.1
K30-135	1	9.2	17.6	3	5.1
K30-160	1	9.2	20.2	3	5.1
K30-185	1	9.2	20.2	3	5.1
K30-200	1	15.2	20.2	3	5.1
K30-250	1	13.2	22.4	3	5.1
K30-300	2	13.2	20.4	3	5.1
K30-400	2	14	23.7	3	5.1
K30-500	2	14	23.7	3	10.2
K30-600	2	17.2	27.0	3	10.2
K30-700	2	17.2	27.0	3	10.2
K30-800	2	23.5	29.2	3	10.2
K30-900	2	23.5	29.2	3	10.2

**Physical Characteristics**

**Material: Leads**

K30-090~250	Tin plated copper, 22AWG, 0.60mm
K30-300~900	Tin plated copper, 20AWG, 0.80mm

**Environmental Specifications**

Test	conditions	Resistance change
Passive aging	+85°C, 100hrs	±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)**

Model	Ihold (A)	Itrip (A)	Vmax (Vdc)	Imax (A)	Pd max (w)	Maximum Time To Trip		Resistance		
						Current (A)	Time (S)	Rmin (mΩ)	Rmax (mΩ)	R1max (mΩ)
K30-090	0.90	1.80	30	40	0.6	4.50	8	100	220	300
K30-110	1.10	2.20	30	40	0.7	5.50	8	70	200	260
K30-120	1.20	2.40	30	40	0.8	6.00	8	80	160	200
K30-135	1.35	2.70	30	40	0.8	6.75	8	70	160	220
K30-160	1.60	3.20	30	40	0.9	8.00	8	60	140	180
K30-185	1.85	3.70	30	40	1.0	9.25	8	50	120	150
K30-200	2.00	4.00	30	40	1.2	10.00	11	40	100	130
K30-250	2.50	5.00	30	40	1.2	12.50	11	30	80	100
K30-300	3.00	6.00	30	40	2.0	15.00	11	30	70	100
K30-400	4.00	8.00	30	40	2.5	20.00	12.7	10	60	90
K30-500	5.00	10.00	30	40	3.0	25.00	14.5	10	50	80
K30-600	6.00	12.00	30	40	3.5	30.00	16	5	40	60
K30-700	7.00	14.00	30	40	3.8	35.00	17.5	5	30	50
K30-800	8.00	16.00	30	40	4.0	40.00	18.8	5	25	30
K30-900	9.00	18.00	30	40	4.2	40.00	20	5	20	25

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.

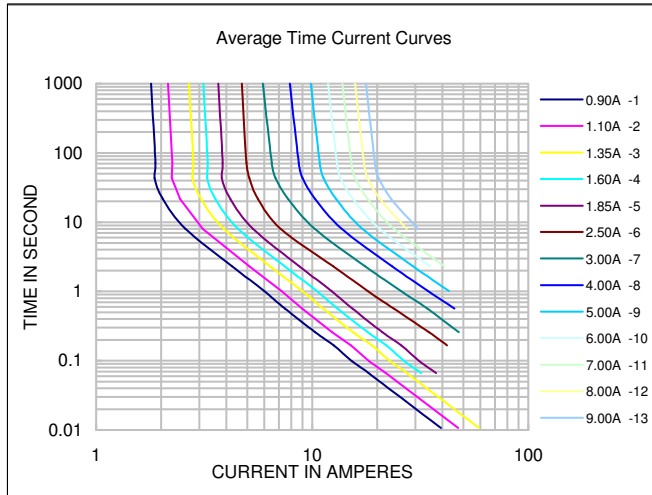
R1max Maximum resistance of device at 25°C measured one hour after trippde tripping.

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

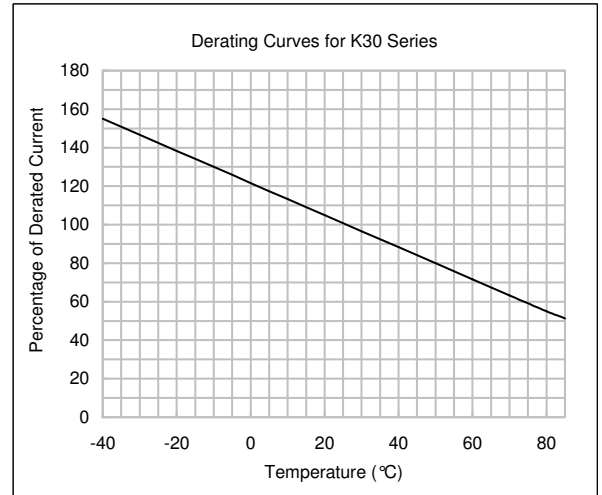
**Thermal Derating Chart-IH(A)**
**Maximum ambidnt operating temperatures(°C)**

Part number	Maximum ambidnt operating temperatures(°C)									
	-40	-20	0	25	40	50	60	70	80	
K30-090	1.40	1.25	1.10	0.90	0.75	0.69	0.65	0.60	0.50	
K30-110	1.75	1.52	1.33	1.10	0.99	0.90	0.80	0.73	0.63	
K30-135	2.15	1.94	1.60	1.35	1.31	1.19	1.00	0.90	0.81	
K30-160	2.490	2.210	1.940	1.600	1.420	1.310	1.190	1.030	0.880	
K30-185	2.87	2.59	2.28	1.85	1.63	1.52	1.33	1.31	1.05	
K30-250	3.82	3.44	3.03	2.50	2.17	2.00	1.81	1.59	1.39	
K30-300	4.550	4.100	3.600	3.000	2.650	2.510	2.240	2.010	1.740	
K30-400	6.00	5.40	4.74	4.00	3.47	3.28	2.82	2.63	2.26	
K30-500	7.44	6.68	5.80	5.00	4.30	4.03	3.58	3.22	2.77	
K30-600	8.900	7.990	7.080	6.000	5.130	4.820	4.270	3.840	3.300	
K30-700	10.35	9.30	8.21	7.00	5.95	5.58	4.96	4.46	3.84	
K30-800	11.60	10.60	9.35	8.00	6.79	6.36	5.64	5.07	4.36	
K30-900	13.25	11.90	10.49	9.00	7.53	7.12	6.32	5.69	4.88	

Typical Time-To-Trip Curve At 25 °C



Thermal Derating Curve



Package Information

**Bulk:**

K30-090~250	1000pcs per bag
K30-300~500	500pcs per bag
k30-600~900	200pcs per bag