Features

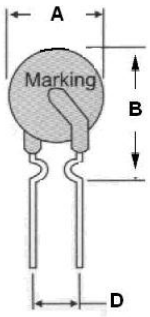
- Radial leaded Devices
- Cured,flame retardant epoxy polymer insulating material meets UL94V-0 requirements
- Bulk packaging,or tape and reel available on most models
- Agency Approval:UL,ROHS

Applications

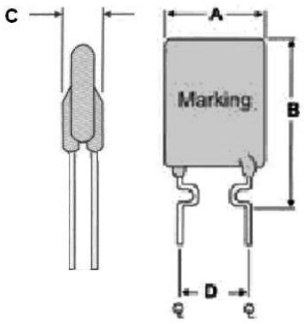
Almost anywhere there is a low voltage power supply, up to DC30V and a load to be protested, including:

- Personal computer
- Toys
- Industrial controls

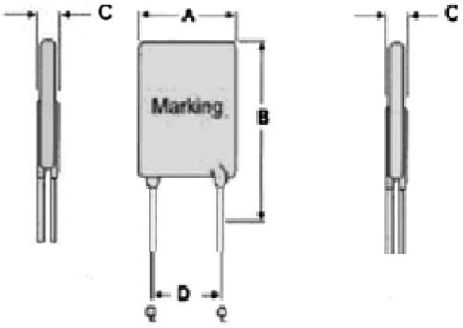
Dimensions



Pig.1



Pig.2



Pig.3

Unit ： mm

Model	Dimensions（mm）				Lead material	Shape
	A(max)	B(max)	C(max)	D(typ)	Tinned matel(mm)	Fig
JK30-050	7.4	12.7	3.0	5.1	24AWG/Φ0.5	1
JK30 075	7.4	13.0	3.0	5.1	24AWG/Φ0.5	1
JK30-090	7.4	18.5	3.0	5.1	24AWG/Φ0.5	2
JK30-110	7.4	18.5	3.0	5.1	24AWG/Φ0.5	2
JK30-120	7.4	18.5	3.0	5.1	24AWG/Φ0.5	2
JK30-135	9.2	17.6	3.0	5.1	24AWG/Φ0.5	2
JK30-160	9.2	20.2	3.0	5.1	24AWG/Φ0.5	2
JK30-185	9.2	20.2	3.0	5.1	24AWG/Φ0.5	2
JK30-200	15.2	20.2	3.0	5.1	24AWG/Φ0.5	2
JK30-250	13.2	22.4	3.0	5.1	24AWG/Φ0.5	2
JK30-300	13.2	20.4	3.0	5.1	20 AWG/Φ0.8	3

JK30-400	14.0	23.7	3.0	5.1	20 AWG/Φ0.8	3
JK30-500	14.0	23.7	3.0	10.2	20 AWG/Φ0.8	3
JK30-600	17.2	27.0	3.0	10.2	20 AWG/Φ0.8	3
JK30-700	17.2	27.0	3.0	10.2	20 AWG/Φ0.8	3
JK30-800	23.5	29.2	3.0	10.2	20 AWG/Φ0.8	3
JK30-900	23.5	29.2	3.0	10.2	20 AWG/Φ0.8	3

Note: ① Dimensions A, B, C is the maximum size, D values are typical tolerance of ± 0.50mm

Thermal Derating Chart-IH（A）

Model	Maximum ambient operating temperatures（℃）									
	-40	-20	0	25	40	50	60	70	80	85
JK30-050	0.72	0.65	0.57	0.5	0.45	0.41	0.38	0.34	0.30	0.25
JK30-075	1.08	0.97	0.86	0.75	0.68	0.62	0.57	0.51	0.45	0.37
JK30-090	1.30	1.17	1.03	0.9	0.81	0.74	0.69	0.61	0.54	0.45
JK30-110	1.59	1.43	1.26	1.1	1.0	0.91	0.84	0.74	0.67	0.55
JK30-120	1.74	1.56	1.38	1.2	1.09	0.99	0.92	0.81	0.73	0.6
JK30-135	1.95	1.75	1.55	1.35	1.22	1.12	1.03	0.91	0.82	0.67
JK30-160	2.32	2.08	1.84	1.6	1.45	1.32	1.23	1.08	0.97	0.8
JK30-185	2.68	2.40	2.12	1.85	1.68	1.53	1.42	1.25	1.12	0.92
JK30-200	2.9	2.6	2.3	2	1.82	1.66	1.54	1.36	1.22	1
JK30-250	3.62	3.25	2.87	2.5	2.27	2.07	1.92	1.7	1.52	1.25
JK30-300	4.35	3.9	3.45	3	2.73	2.49	2.31	2.04	1.83	1.5
JK30-400	5.8	5.2	4.6	4	3.64	3.32	3.08	2.72	2.44	2
JK30-500	7.25	6.5	5.75	5	4.55	4.15	3.85	3.4	3.05	2.5
JK30-600	8.7	7.8	6.9	6	5.46	4.98	4.62	4.08	3.66	3
JK30-700	10.15	9.1	8.05	7	6.37	5.81	5.39	4.76	4.27	3.5
JK30-800	11.6	10.4	9.2	8	7.28	6.64	6.16	5.44	4.88	4
JK30-900	13.05	11.7	10.35	9	8.19	7.47	6.93	6.12	5.49	4.5

Electrical Characteristic

Model	I_{Hold}(A)	I_{Trip} (A)	Vmax	Imax	$P_{d\ Max}$	Maximum Time to Trip		Resistance（mΩ）	
			$V_{(DC)}$	A	W	Current （A）	Time（S）	R_{min}	R_{max}
JK30-050	0.5	1.0	30	40	0.5	2.5	5.0	250	600
JK30-075	0.75	1.5	30	40	0.6	3.75	5.0	200	370
JK30-090	0.90	1.8	30	40	0.7	4.5	8.0	100	220
JK30-110	1.10	2.2	30	40	0.7	5.5	8.0	70	200
JK30-120	1.20	2.4	30	40	0.8	6.0	8.0	80	180
JK30-135	1.35	1.7	30	40	0.8	6.75	8.0	70	160

JK30-160	1.60	3.2	30	40	0.9	8.0	8.0	60	140
JK30-185	1.85	3.7	30	40	1.0	9.25	8.0	50	120
JK30-200	2.00	4.0	30	40	1.2	10.0	11	40	100
JK30-250	2.50	5.0	30	40	1.2	12.5	11	30	80
JK30-300	3.00	6.0	30	40	2.0	15.0	11	30	70
JK30-400	4.00	8.0	30	40	2.5	20.0	12.7	10	60
JK30-500	5.00	10	30	40	3.0	25.0	14.5	10	50
JK30-600	6.00	12	30	40	3.5	30.0	16	5	40
JK30-700	7.00	14	30	40	3.8	35.0	17.5	5	30
JK30-800	8.00	16	30	40	4.0	40.0	18.8	5	25
JK30-900	9.00	18	30	40	4.2	40.0	20	5	20

Test Procedures And Requirements

Test	Test Conditions	Accept/Reject Criteria
Resistance	In still air @ 25℃	$R_{min} \leq R \leq R_{max}$
Time to Trip	Specified current，V_{max}，25℃	Tmaximum Time to Trip
Hold Current	60min，at I_H	No trip
Trip Cycle Life	Vmax，Imax，100cycles	No arcing or burning
Trip Endurance	Vmax，24hours	No arcing or burning

Physical Characteristics and Environmental Specifications

Physical Characteristics

Test	Conditions	Resistance change
Passive aging	+85℃，1000hrs	±8% typical
Humidity aging	+85℃，85%R.H.1000hrs	±8% typical
Thermal shock	+125℃ to -55℃，10times	±12% typical
Resistance to solvent	MIL-STD-202，Method 215	No change
Vibration	MIL-STD-202，Method 201	No change

Operation Condition

1 Ambient temperature: -40℃～85℃

2 Humidity: ≤95%HR(40℃)

3 Atmospheric pressure: 86Kpa ~106Kpa.

4 Vibration frequency: 10Hz ~ 50Hz.

5 Acceleration: 98m/s2.

6 Storage temperature: -40℃~85℃.

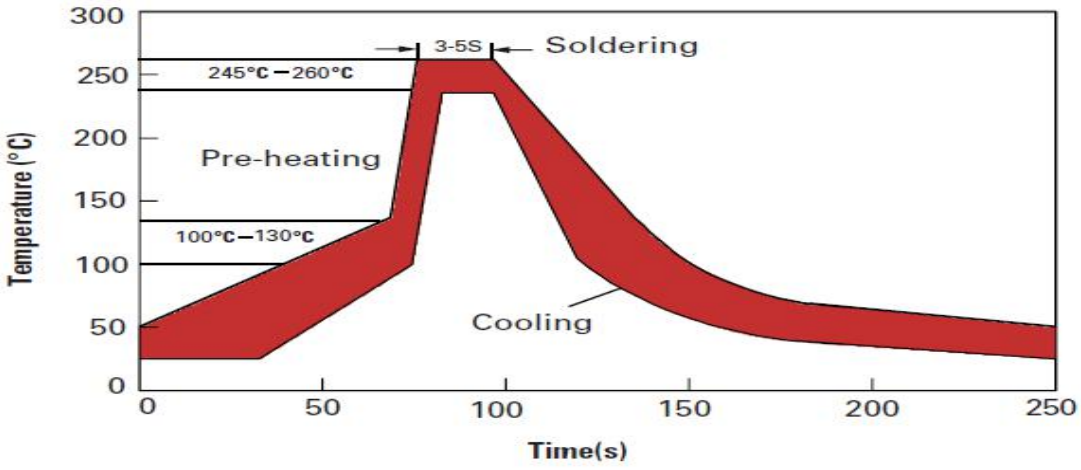
7Soldering

7.1 Wave Soldering:

Soldering Temperature:240℃~270℃

Soldering Time:≤5sec.

Soldering Position: Resettable fuse wire and the bottom ≥ 6mm。



recommended curve

7.2 Manual soldering

Soldering Temperature:280℃~300℃

Soldering Time: ≤2sec.

Soldering Position: Resettable fuse wire and the bottom ≥ 6mm。

Electrical Specifications:

I_H=Hold current:maximum current at which the device will not trip at 25℃ still air.

I_T=Trip current:minimum current at which the device will nalways at 25℃ still air.

V_{max}=Maximum voltage device can withstand without damage at rated current.

I_{max}=Maximum fault current device can withstand tithout damage at rated voltage.

T_{trip}=Maximum time to trip(s) at assigned current.

P_d=Typical power dissipation:typical amount of power dissipated by the decice when in state air environment.

R_{min}=Minimum device resistance at 25℃ prior to tripping.

R_{max}=Maximum device resistance at 25℃ prior to tripping.

Packaging and Storage

JK30-050～JK30-250	1000Pcs/Bag	or 2000Pcs/Box
JK30-300～JK30-500	500 Pcs/Bag	
JK30-600～JK30-900	200 Pcs/Bag	