

Polymer PTC Resettable Fuse JK60 Series

Features:

- 2 RoHS Compliant & Halogen Free
- 2 Radial-leaded Devices
- 2 Cured, flame retardant epoxy polymer insulating material meets UL94V-0 requirements
- 2 Operation Current: 0.05A~5A , Maximum Voltage: 60Vdc, Operating Temperature: -40°C TO 85°C
- 2 Agency recognition:UL、TUV



Product Dimensions

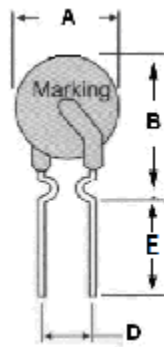


Fig.1

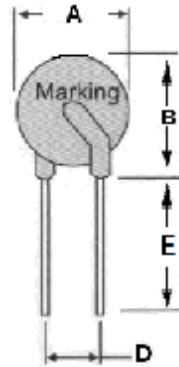
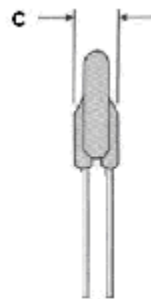


Fig.2

Unit : mm

JK60 Series

Model	Dimensions (mm)					Lead material	Shape
	A(max)	B(max)	C(max)	D	E(min)	Tinned metal(mm)	Fig
JK60-005	5.0	8.5	3.0	5.1±0.75	4.6	24 AWG/Φ0.5	1
JK60-010	5.5	9.5	3.0	5.1±0.75	4.6	24 AWG/Φ0.5	1
JK60-017	7.4	12.7	3.0	5.1±0.75	4.6	24 AWG/Φ0.5	1
JK60-020	7.4	12.7	3.0	5.1±0.75	4.6	24 AWG/Φ0.5	1
JK60-025	7.4	12.7	3.0	5.1±0.75	4.6	24 AWG/Φ0.5	1
JK60-030	7.4	13.0	3.0	5.1±0.75	4.6	24 AWG/Φ0.5	1
JK60-040	7.8	16.2	3.0	5.1±0.75	4.6	24 AWG/Φ0.5	1
JK60-050	7.8	16.2	3.0	5.1±0.75	4.6	24 AWG/Φ0.5	1
JK60-065	9.7	17.8	3.0	5.1±0.75	4.6	22 AWG/Φ0.5	1

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JK60-075	10.4	18.4	3.0	5.1±0.75	4.6	22 AWG/Φ0.5	1
JK60-090	11.7	18.4	3.0	5.1±0.75	4.6	22 AWG/Φ0.8	1
JK60-110	13.0	18.0	3.0	5.1±0.75	7.6	20 AWG/Φ0.8	2
JK60-135	14.5	19.6	3.0	5.1±0.75	7.6	20 AWG/Φ0.8	2
JK60-160	16.3	21.3	3.0	5.1±0.75	7.6	20 AWG/Φ0.8	2
JK60-185	17.8	22.9	3.0	5.1±0.75	7.6	20 AWG/Φ0.8	2
JK60-200	17.8	22.9	3.0	5.1±0.75	7.6	20 AWG/Φ0.8	2
JK60-250	21.3	26.4	3.0	10.2±0.75	7.6	20 AWG/Φ0.8	2
JK60-300	21.3	26.4	3.0	10.2±0.75	7.6	20 AWG/Φ0.8	2
JK60-375	28.5	33.5	3.0	10.2±0.75	7.6	20 AWG/Φ0.8	2
JK60-500	28.5	33.5	3.0	10.2±0.75	7.6	20 AWG/Φ0.8	2

Note: Dimensions in the A, B, C are the maximum sizes, all typical values of D is at the tolerance of $\pm 0.75\text{mm}$.

Thermal Derating Chart-IH (A)

Model	Maximum ambient operating temperature (°C)									
	-40°C	-20°C	0°C	25°C	30°C	40°C	50°C	60°C	70°C	85°C
JK60 series	147%	136%	119%	100%	90%	81%	72%	63%	54%	40%

Electrical Characteristics

Model	I _H (A)	I _T (A)	V _{max}	I _{max}	P _d	Maximum Time-to-Trip		Resistance (Ω)	
			V _(DC)	A _(DC)	W	Current (A)	Time (S)	R _{min}	R _{max}
JK60-005	0.05	0.15	60	40	0.26	0.25	8.0	7.3	20
JK60-010	0.10	0.3	60	40	0.38	0.5	5.0	2.5	7.5
JK60-017	0.17	0.34	60	40	0.48	0.85	5.0	2	5.21
JK60-020	0.2	0.4	60	40	0.41	1.0	5.0	1.5	2.84
JK60-025	0.25	0.5	60	40	0.45	1.25	5.0	1.0	1.95
JK60-030	0.30	0.6	60	40	0.49	1.5	5.0	0.76	1.38
JK60-040	0.40	0.8	60	40	0.56	2.0	5.0	0.45	0.88
JK60-050	0.50	1.0	60	40	0.77	2.5	5.0	0.40	0.79
JK60-065	0.65	1.3	60	40	0.88	3.25	5.0	0.31	0.50
JK60-075	0.75	1.5	60	40	0.92	3.75	5.0	0.25	0.42
JK60-090	0.90	1.8	60	40	0.99	4.5	5.0	0.20	0.33
JK60-110	1.10	2.2	60	40	1.5	5.5	8.0	0.15	0.27
JK60-135	1.35	2.7	60	40	1.7	6.75	8.0	0.12	0.21
JK60-160	1.60	3.2	60	40	1.9	8.0	8.0	0.09	0.16
JK60-185	1.85	3.7	60	40	2.1	9.25	8.0	0.08	0.14
JK60-200	2.00	4.0	60	40	2.3	10.0	8.0	0.07	0.14
JK60-250	2.50	5.0	60	40	2.5	12.5	8.0	0.05	0.10
JK60-300	3.00	6.0	60	40	2.8	15.0	8.0	0.04	0.08

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JK60-375	3.75	7.5	60	40	3.2	18.75	24.0	0.03	0.06
JK60-500	5.00	10	60	40	3.5	25.0	24.0	0.02	0.06

I_H =Hold current:Maximum current at which the device will not interrupt in 25°C still air.

I_T =Trip current:Minimum current at which the device from low resistance to high resistance in 25°C still air.

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

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

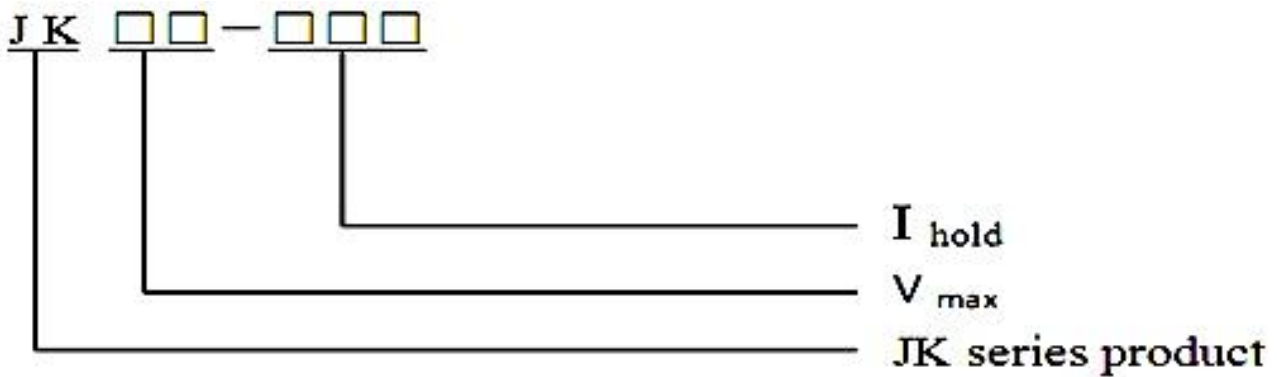
Maximum Time-to-trip:Maximum time to trip at assigned current.

P_d =Typical power dissipation:Typical amount of power dissipated from the device when in 25°C still air environment.

R_{min} =Minimum resistance of device at 25°C prior to tripping.

R_{max} =Maximum resistance of device at 25°C prior to tripping.

Marking System



Environmental Specifications

Test	Conditions	Resistance change
Passive Aging	+85°C, 1000hours	$\leq R_{max}$
Humidity Aging	+85°C, 85% R.H.1000hours	$\leq R_{max}$
Thermal Shock	+125°C to -55°C, 10 Times	$\geq R_{min}$
Solvent Resistance	MIL-STD-202, Method 215F	No change
Vibration	MIL-STD-202, Method 201	No change

Soldering method

Wave Soldering

Soldering Temperature:245°C~260°C

Soldering Time: ≤ 5 sec

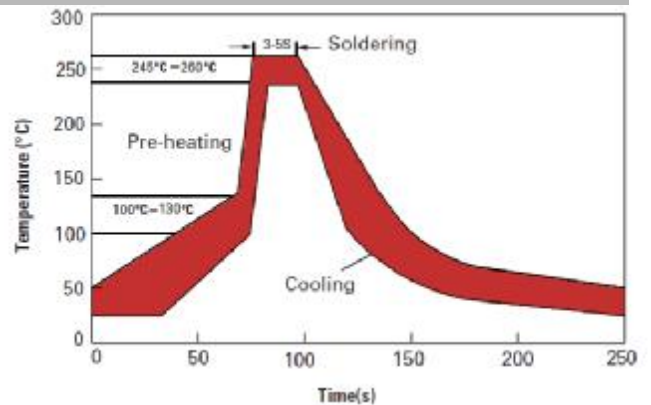
Soldering Position: Resettable fuse lead and the distance from the bottom ≥ 6 mm

Manual soldering

Soldering Temperature:250°C~280°C

Soldering Time: ≤ 3 sec

Soldering Position: Resettable fuse lead and the distance from the bottom ≥ 6 mm



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Packaging and Storage

Packaging quantity

JK60-005~JK60-110 1000Pcs/Bag or 2000Pcs/Box

JK60-135~JK60-200 500 Pcs/Bag

JK60-250~JK60-500 200 Pcs/Bag

Storage

The maximum ambient temperature shall not exceed 40°C. Storage temperature higher than 40°C could result in the deformation of packaging materials. The maximum relative humidity recommended for storage is 70%. High humidity with high temperature can accelerate the oxidation of the solder plating on the leads and reduce the solderability of the components. Sealed plastic bags with desiccant shall be used to reduce the oxidation of the leads and shall only be opened prior to use. The products shall not be stored in areas where harmful gases containing acid or alkali or other harmful substances are present.

Warning:

- Please read this specification before using the product.
- Use PPTC beyond the maximum ratings or improper use may result in device damage, electrical arcing and flame.
- PPTC are intended for protection against occasional over current or over temperature fault conditions and should not be used when repeated fault conditions or prolonged trip events are anticipated.
- Device performance can be impacted negatively if devices are handled in a manner inconsistent with recommended electronic, thermal, and mechanical procedures for electronic components.
- Use PPTC with a large inductance in circuit will generate a circuit voltage above the rated voltage of the PPTC.
- Avoid impact PPTC device its thermal expansion like placed under pressure or installed in limited space.
- Contamination of the PPTC material with certain silicon based oils or some aggressive solvents can adversely impact the performance of the devices. PPTC can be cleaned by standard methods.

Notes:

The specification is intended to present application product and technical data to assist the user in selecting PPTC circuit production devices. However, users should independently evaluate and test the suitability of each product. JK makes no warranties as to the accuracy or completeness of the information and disclaims any liability resulting from its use. JK's only obligations are those in the JK Standard Terms and Conditions of Sale and in no case will JK be liable for any incidental, indirect, or consequential damages arising from the sale, resale, or misuse of its products. JK reserves the right to change or update any information contained in this specification without notice.

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