Resettable Fuse PTC 130V Series

Features

RoHS Compliant and lead-Free

Radial leaded Devices

Cured，flame retardant epoxy polymer insulating material meets UL94V-0 requirements

Operation Current: 0.1A~2.5A ， Maximum Voltage: 130Vdc，

Operating Temperature：-40℃ to +85℃

Agency recognition:

Dimensions(Unit:mm)

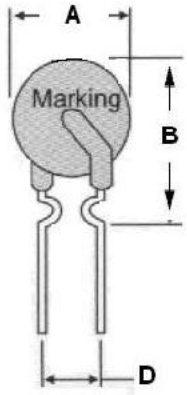
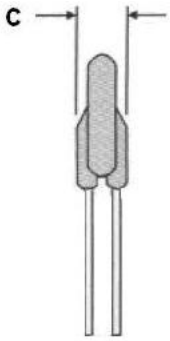
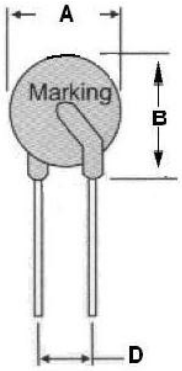


Fig.1





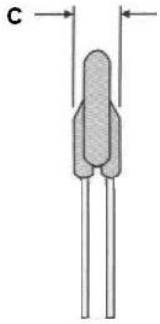


Fig.2

Part number	Dimensions(mm)				Lead material	Shape	Certification	Delivery Time	
	A(max)	B(max)	C(max)	D(Typ)	Tinned Matel(mm)	Fig	UL	in stock	Produce
JK130-010	7.4	12.7	3.8	5.10	22 AWG/ Φ0.6	Fig1	√	3days	14days
JK130-015	7.4	13.0	3.8	5.10	22 AWG/ Φ0.6	Fig1	√	3days	14days
JK130-017	7.4	13.5	3.8	5.10	22 AWG/ Φ0.6	Fig1	-	3days	14days
JK130-020	7.6	13.5	3.8	5.10	22 AWG/ Φ0.6	Fig1	√	3days	14days
JK130-025	7.6	13.5	3.8	5.10	22 AWG/ Φ0.6	Fig1	√	3days	14days
JK130-030	8.0	14.0	3.8	5.10	22 AWG/ Φ0.6	Fig1	√	3days	14days
JK130-040	9.4	15.0	3.8	5.10	22 AWG/ Φ0.6	Fig1	√	3days	14days
JK130-050	10.2	15.2	3.8	5.10	22 AWG/ Φ0.6	Fig1	√	3days	14days
JK130-065	12.8	18.0	3.8	5.10	22 AWG/ Φ0.6	Fig1	√	3days	14days
JK130-075	12.8	18.0	3.8	5.10	22 AWG/ Φ0.6	Fig1	√	3days	14days
JK130-090	14.5	19.6	3.8	5.10	20 AWG/ Φ0.8	Fig2	√	3days	14days

Resettable Fuse PTC 130V Series

Part number	Dimensions(mm)				Lead material	Shape	Certification	Delivery Time	
	A(max)	B(max)	C(max)	D(Typ)	Tinned Matel(mm)	Fig	UL	in stock	Produce
JK130-110	16.3	21.3	3.8	5.10	20 AWG/ Φ0.8	Fig2	√	3days	14days
JK130-135	17.0	22.0	3.8	5.10	20 AWG/ Φ0.8	Fig2	√	3days	14days
JK130-160	20.0	25.0	3.8	5.10	20 AWG/ Φ0.8	Fig2	√	3days	14days
JK130-185	22.0	23.0	3.8	5.10	20 AWG/ Φ0.8	Fig2	√	3days	14days
JK130-200	25.0	27.0	3.8	10.2	20 AWG/ Φ0.8	Fig2	√	3days	14days
JK130-250	27.0	32.0	3.8	10.2	20 AWG/ Φ0.8	Fig2	√	3days	14days

Note: Dimensions A,B,C is the maximum size,D Values is typical tolernce of ±0.75mm

Thermal Derating Chart-IH(A)

Part Number	Maximum ambient operating temperatures ℃								
	-40℃	-20℃	0℃	25℃	40℃	50℃	60℃	70℃	85℃
JK130-010	0.15	0.13	0.12	0.1A	0.085	0.076	0.67	0.06	0.047
JK130-015	0.22	0.20	0.18	0.15A	0.13	0.11	0.10	0.09	0.07
JK130-017	0.25	0.22	0.20	0.17A	0.14	0.13	0.11	0.10	0.08
JK130-020	0.29	0.26	0.24	0.20A	0.17	0.15	0.13	0.12	0.09
JK130-025	0.37	0.33	0.30	0.25A	0.21	0.19	0.17	0.15	0.12
JK130-030	0.44	0.40	0.35	0.30A	0.26	0.23	0.20	0.18	0.14
JK130-040	0.59	0.53	0.47	0.40A	0.34	0.30	0.27	0.24	0.19
JK130-050	0.74	0.66	0.59	0.50A	0.43	0.38	0.34	0.30	0.24
JK130-065	0.96	0.86	0.77	0.65A	0.55	0.49	0.44	0.39	0.31
JK130-075	1.10	0.99	0.89	0.75A	0.64	0.57	0.50	0.45	0.35
JK130-090	1.32	1.19	1.06	0.90A	0.77	0.68	0.60	0.54	0.42
JK130-110	1.62	1.45	1.30	1.10A	0.94	0.84	0.74	0.66	0.52
JK130-135	1.98	1.78	1.59	1.35A	1.15	1.03	0.90	0.81	0.63
JK130-160	2.35	2.11	1.89	1.60A	1.36	1.22	1.07	0.96	0.75
JK130-185	2.72	2.44	2.18	1.85A	1.57	1.41	1.24	1.11	0.87
JK130-200	2.94	2.64	2.36	2.00A	1.70	1.52	1.34	1.20	0.94
JK130-250	3.68	3.30	2.95	2.50A	2.13	1.90	1.68	1.50	1.18

Electrical characteristics(25℃)

Part Number	I Hold	I Trip	Vmax	Imax	Pd Max	Maximum Time to Trip		Resistance（Ω）		Certification	Delivery Time	
	A	A	DC	A	W	Current（A）	Time（S）	Rmin	Rmax	UL	in stock	Produce
JK130-010	0.10	0.20	130V	3	0.8	0.5	6	2.5	9.0	√	3days	14days
JK130-015	0.15	0.30	130V	3	0.8	0.75	5.5	2.50	7.50	√	3days	14days
JK130-017	0.17	0.34	130V	3	0.8	0.85	5.2	1.50	7.00	-	3days	14days
JK130-020	0.20	0.40	130V	3	0.8	1	5.0	1.9	4.0	√	3days	14days
JK130-025	0.25	0.50	130V	3	1.0	1.25	4.8	1.45	3.50	√	3days	14days
JK130-030	0.30	0.60	130V	3	1.0	1.5	4.5	1.0	3.0	√	3days	14days
JK130-040	0.40	0.80	130V	3	1.0	2.0	4.5	0.75	2.0	√	3days	14days
JK130-050	0.50	1.0	130V	3	1.0	2.5	5.0	0.50	1.60	√	3days	14days
JK130-065	0.65	1.3	130V	10	1.0	3.25	5.2	0.45	1.0	√	3days	14days
JK130-075	0.75	1.5	130V	10	1.0	3.75	5.5	0.40	0.90	√	3days	14days
JK130-090	0.90	1.8	130V	10	1.5	4.5	5.8	0.30	0.70	√	3days	14days
JK130-110	1.10	2.2	130V	10	1.8	5.5	6.3	0.20	0.65	√	3days	14days
JK130-135	1.35	2.7	130V	10	1.8	6.75	7.5	0.15	0.60	√	3days	14days
JK130-160	1.60	3.2	130V	10	2.0	8.0	8	0.10	0.50	√	3days	14days
JK130-185	1.85	3.7	130V	10	2.0	9.25	9	0.10	0.40	√	3days	14days
JK130-200	2.00	4.0	130V	10	2.2	10.0	10	0.10	0.30	√	3days	14days
JK130-250	2.50	5.0	130V	10	2.5	12.5	12	0.05	0.25	√	3days	14days

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

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

Vmax=Maximum voltage device can withstand without damage at rated current.

Imax=Maximum fault current device can withstand tithout damage at rated voltage.

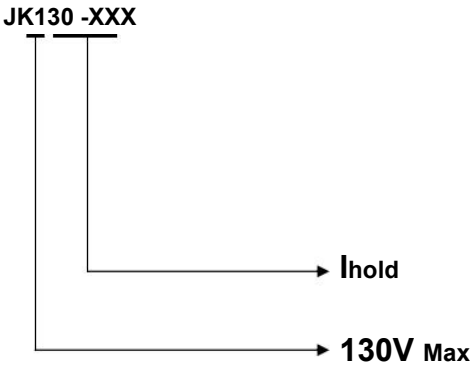
Ttrip=Maximum time to trip(s) at assigned current.

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

Rmin=Minimum device resistance at 25℃ prior to tripping.

Rmax=Maximum device resistance at 25℃ prior to tripping.

Marking System



Test Procedures and Requirements

Test	Test Conditions	Accept/Reject Criteria
Resistance	In still air @ 25℃	$R_{min} \le R \le R_{max}$
Time to Trip	Specified current,Vmax，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.

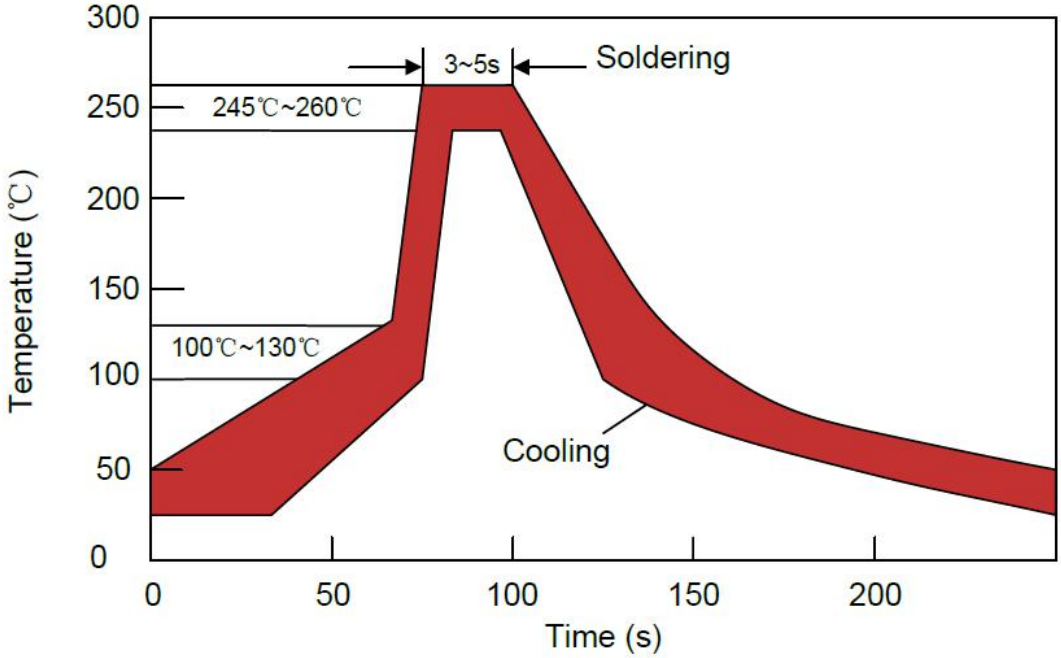
6 Storage temperature: -40℃~85℃.

7.1 Wave Soldering:

Soldering Temperature:260℃~270℃ Soldering Time:≤3sec.

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

Wave Soldering Recommendation Parameters



7.2 Manual soldering

Soldering Temperature:250℃~280℃

Soldering Time: ≤3sec.

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

Packing quantity:

JK130-010 ~ JK130-065 1000pcs/Bag

JK130-075 ~ JK130-250 500pcs/Bag

Storage

The maximum ambient temperature shall not exceed 40℃.Storage temperatures higher than 40℃ 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 the oxidation of the solder plating on the termination and reduce the solderability of the components.sealed plastic bags with desiccant shall be used to teduce the oxidation of the termination and shall only be opened prior to use.the products shall not be stored in areas where harmful gases containing sulfu of chlorine are present.

Warning:

Please read this specification before use the product。Using of this product must be sure to follow the requirement of this specification，operation beyond the specified maximum ratings or improper use may result in damage and possible electrical arcing and flame.PTC resettable fuses are intended for occasional over current protection. Application for repeated over current condition or prolonged trip are not anticipated.Please avoid contact of PTC resettable fuses with chemical solvent. Prolonged contact will damage the device performance.You are requested not to use our product deviating from the agreed specifications.