承　　认　　书
APPROVAL　SHEET

编　号 No.	BJK130-010-A/1-B
日期 Date	2020.07.03

客　　户 Customer	

品　　名 Product	Radial leaded PPTC fuse
系　　列 Series	BJK130 Series

料号 Part No.		规格描述 Specification	备注 Remark
贝特电子 Betterfuse		Radial leaded PPTC 130VDC	
客　　户 Customer			

环保特别提示 Special instructions for environmental protection
本产品：

供应商-贝特电子 Supplier-Betterfuse		零件承认章 Approval Signet	客　　户 Customer	零件承认章 Approval Signet
制　作 Make				
审　核 Check				
确　认 Approval				

联络 Contact			
业务 Sales	电话 Telephone	手机 Cellphone	邮箱 E-mail
零件承认后敬请回签一份给我司留存，或将承认后的封面传真（0769-8352 1857）至我司，谢谢！			

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4						
5						
6						
7						
8						

Table of Contents

1. SCOPE AND DESCRIPTION..... 3

2. GENERAL INFORMATION.....3

3. AGENCY APPROVALS.....3

4. PART NUMBERING SYSTEM..... 3

5. MECHANICAL CHARACTERISTICS.....4

6. ELECTRICAL SPECIFICATIONS..... 5

7. SOLDERING PARAMETERS.....6

8. ORDERING INFORMATION.....7

9. ORDERING INFORMATION.....7

1. SCOPE AND DESCRIPTION

Following electronic product specifications apply to fuses of the BJK130 series. The BJK130 series is a PPTC fuse for over-current protection.

Almost anywhere there is a low voltage power supply, up to DC130V and a load to be protested, including:Security and fire alarm systems,lamp, rectifier, transformer, motor.

2. GENERAL INFORMATION

General Description

BJK130 series resettable fuse is specially designed for communication switches,distribution frame.This series have been many times tested by the ministry of information industry, protection product testing center and CSBTS, which performance is completely conform to the post and telecommunications industry standard “YDT 741-2002,Communications equipment overcurrent protection with positive temperature coefficient (PTC) thermistor technical requirements"

Detailed Features

- Radial-leaded Devices
- Cured，flame retardant epoxy polymer insulating material meets UL94V-0 requirements
- RoHS Compliant ＆ Lead Free

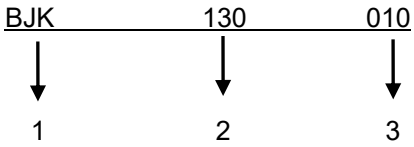
3. AGENCY APPROVALS

Agency	Agency File Number	Ampere/ Voltage Range
c UL us	E345393	130V:0.1A;0.15A;0.2A;0.3A;0.4A;0.5A;0.65A 0.75A;0.9A;1.1A;1.35A;1.6A;1.85A;2.0A;2.50A

4. PART NUMBERING SYSTEM

4.1 Part Number

Example: BJK130-010



1 .Product Series ……..... BJK
2 .Maximum Operation Voltage..…. 130V
3 .Hold Current ……..... 0.10A

5. MECHANICAL CHARACTERISTICS

5.1 Dimensions

Unit:mm

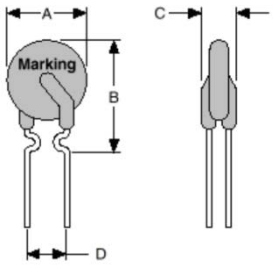


Fig.1

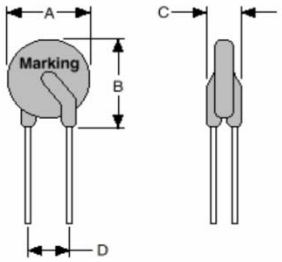


Fig.2

Model	Dimensions（mm）				Lead material	Shape
	A(max)	B(max)	C(max)	D(typ)	Tinned metal(mm)	Fig
BJK130-010	7.4	12.7	3.8	5.1	22AWG/Φ0.6	1
BJK130-015	7.4	13.0	3.8	5.1	22AWG/Φ0.6	1
BJK130-017	7.4	13.5	3.8	5.1	22AWG/Φ0.6	1
BJK130-020	7.6	13.5	3.8	5.1	22AWG/Φ0.6	1
BJK130-025	7.6	13.5	3.8	5.1	22AWG/Φ0.6	1
BJK130-030	8.0	14.0	3.8	5.1	22AWG/Φ0.6	1
BJK130-040	9.4	15.0	3.8	5.1	22AWG/Φ0.6	1
BJK130-050	10.2	15.2	3.8	5.1	22AWG/Φ0.6	1
BJK130-065	12.8	18.0	3.8	5.1	22AWG/Φ0.6	1
BJK130-075	12.8	18.0	3.8	5.1	22AWG/Φ0.6	1
BJK130-090	14.5	19.6	3.8	5.1	20AWG/Φ0.8	2
BJK130-110	16.3	21.3	3.8	5.1	20AWG/Φ0.8	2
BJK130-135	17.0	22.0	3.8	5.1	20AWG/Φ0.8	2
BJK130-160	20	25	3.8	5.1	20AWG/Φ0.8	2
BJK130-185	22	23	3.8	5.1	20AWG/Φ0.8	2
BJK130-200	25	27	3.8	10.2	20AWG/Φ0.8	2
BJK130-250	27	32	3.8	10.2	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

6. ELECTRICAL SPECIFICATIONS

Model	I_H（A）	I_T(A)	Vmax（V）	Imax（A）	P_d （W）	Maximum Time-to-trip		Resistance(Ω)
						Current （A）	Time（S）	Rmin- Rmax
BJK130-010	0.10	0.30	130	3	0.8	0.75	10	2.5~9.0
BJK130-015	0.15	0.30	130	3	0.8	0.75	5.5	2.5~7.5
BJK130-017	0.17	0.34	130	3	0.8	0.85	5.2	1.5~7.0
BJK130-020	0.20	0.40	130	3	0.8	1.0	5.0	1.9~4.0
BJK130-025	0.25	0.50	130	3	1.0	1.25	4.8	1.5~3.5
BJK130-030	0.30	0.60	130	3	1.0	1.5	4.5	1.0~3.0
BJK130-040	0.40	0.80	130	3	1.0	2.0	4.5	0.75~2.0
BJK130-050	0.50	1.0	130	3	1.0	2.5	5.0	0.50~1.6
BJK130-065	0.65	1.3	130	10	1.0	3.25	5.2	0.45~1.0
BJK130-075	0.75	1.5	130	10	1.0	3.75	5.5	0.40~0.90
BJK130-090	0.90	1.8	130	10	1.5	4.5	5.8	0.30~0.70
BJK130-110	1.10	2.2	130	10	1.8	5.5	6.3	0.20~0.65
BJK130-135	1.35	2.7	130	10	1.8	6.75	7.5	0.15~0.60
BJK130-160	1.60	3.2	130	10	2.0	8.0	8	0.10~0.50
BJK130-185	1.85	3.7	130	10	2.0	9.25	9	0.10~0.40
BJK130-200	2.00	4.0	130	10	2.2	10.0	10	0.10~0.30
BJK130-250	2.50	5.0	130	10	2.5	12.5	12	0.05~0.25

I_H=Hold current:Maximum current at which the device will not interruptin 25℃ still air.
I_T=Trip current:Minimum current at which the device from low resistance to high resistance in 25℃ still air.
V_{max}=Maximum continuousvoltage 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℃ still air environment.
R_{min}=Minimum resistance of device at 25℃ prior to tripping.
R_{max}=Maximum resistance of device at 25℃ prior to tripping.

6.2 Environmental Specifications

Test	Conditions	Resistance change
Passive Aging	+85℃， 1000hours	±8% typical
Humidity Aging	+85℃，85%R.H.1000hours	±8% typical
Thermal Shock	+125℃ to -55℃， 10 Times	±12% typical
SolventResistance	MIL-STD-202，Method 215F	No change
Vibration	MIL-STD-202，Method 201	No change

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6.3 Thermal Derating Chart Hold Current (Amps)

Thermal Derating Chart-I_H（A）

Model	Maximum ambient operating temperatures（℃）								
	-40	-20	0	25	40	50	60	70	85
BJK130-010	0.15	0.13	0.12	0.10	0.085	0.076	0.067	0.060	0.047
BJK130-015	0.22	0.20	0.18	0.15	0.13	0.11	0.10	0.09	0.07
BJK130-017	0.25	0.22	0.20	0.17	0.14	0.13	0.11	0.10	0.08
BJK130-020	0.29	0.26	0.24	0.20	0.17	0.15	0.13	0.12	0.09
BJK130-025	0.37	0.33	0.30	0.25	0.21	0.19	0.17	0.15	0.12
BJK130-030	0.44	0.40	0.35	0.30	0.26	0.23	0.20	0.18	0.14
BJK130-040	0.59	0.53	0.47	0.40	0.34	0.30	0.27	0.24	0.19
BJK130-050	0.74	0.66	0.59	0.50	0.43	0.38	0.34	0.30	0.24
BJK130-065	0.96	0.86	0.77	0.65	0.55	0.49	0.44	0.39	0.31
BJK130-075	1.10	0.99	0.89	0.75	0.64	0.57	0.50	0.45	0.35
BJK130-090	1.32	1.19	1.06	0.90	0.77	0.68	0.60	0.54	0.42
BJK130-110	1.62	1.45	1.30	1.10	0.94	0.84	0.74	0.66	0.52
BJK130-135	1.98	1.78	1.59	1.35	1.15	1.03	0.90	0.81	0.63
BJK130-160	2.35	2.11	1.89	1.60	1.36	1.22	1.07	0.96	0.75
BJK130-185	2.72	2.44	2.18	1.85	1.57	1.41	1.24	1.11	0.87
BJK130-200	2.94	2.64	2.36	2.00	1.70	1.52	1.34	1.20	0.94
BJK130-250	3.68	3.30	2.95	2.50	2.13	1.90	1.68	1.50	1.18

7. SOLDERING PARAMETERS

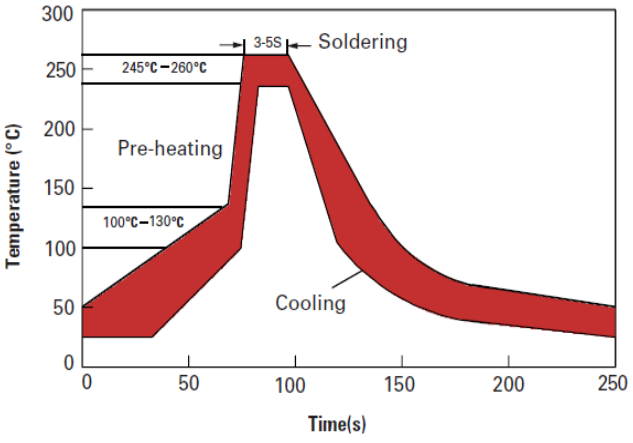
Solderingmethod

Wave Soldering

Soldering Temperature:260℃~270℃

Soldering Time:≤3sec

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



Manual soldering

Soldering Temperature:250℃~280℃

Soldering Time: ≤3sec

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

8. PACKING

Packaging quantity

BJK130-010～BJK130-065	1000Pcs/Bag
BJK130-075～BJK130-200	500 Pcs/Bag

Storage

The maximum ambient temperature shall not exceed 40℃.Storage temperature 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 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 substancesare present.

9. ORDERING INFORMATION

The following information are necessary in order to place your order with us correctly:

Series	Hold Current	Max. Voltage	Qty
BJK130			