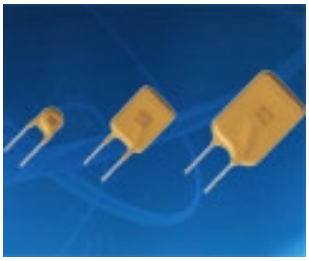
BJK250 Series PPTC Fuse



Features

Radial leaded PTC fuse

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

Bulk packaging, tape and reel available for most models

Applications

Almost all appliances with low voltage power supply, up to DC 60V, and where a load has to be protected, including:

Security and fire alarm systems

Analog and digit line cards

Modems and DSL routers

Electrical Characteristics (@ 25°C)

Part Number	I_{hold} (mA)	I_{trip} (mA)	V_{max} OP (V_{dc})	V_{max} Interrupt (V_{rms})	I_{max} (A)	P_d Typ (W)	Maximum Time To Trip		Resistance		
							Current (A)	Time (s)	R_{min} (Ω)	R_{max} (Ω)	R_{1max} (Ω)
BJK250-020U	20	45	60	250V	3.0	1.0	0.5	0.4	80	160	240
BJK250-030U	30	65	60	250V	3.0	1.0	0.5	0.5	60	120	180
BJK250-040U	40	80	60	250V	3.0	1.0	0.5	1.0	30	60	100
BJK250-060U	60	120	60	250V	3.0	1.0	0.5	0.5	20	60	90
BJK250-080U	80	160	60	250V	3.0	1.0	1.0	0.4	14	22	33
BJK250-090U	90	180	60	250V	3.0	1.0	1.0	0.5	10	20	31
BJK250-100U	100	200	60	250V	3.0	1.0	1.0	1.0	10	20	31
BJK250-110U	110	220	60	250V	3.0	1.0	1.0	1.2	6	12	16
BJK250-120	120	240	60	250V	3.0	1.0	1.0	1.2	5	10	14
BJK250-120U	120	240	60	250V	3.0	1.0	1.0	1.2	6	11	16
BJK250-145U	145	290	60	250V	3.0	1.0	1.0	4.0	3.5	6.5	14
BJK250-180T	180	650	60	250V	10.0	1.8	3.0	1.5	1.0	2.2	4
BJK250-180U	180	650	60	250V	10.0	1.8	3.0	1.5	1	3	5
BJK250-200U	200	400	60	250V	10.0	2.4	3.0	5.0	3	6	9
BJK250-400U	400	800	60	250V	10.0	2.8	3.0	8.0	1	3	6
BJK250-600U	600	1200	60	250V	10.0	3.2	3.0	12.0	0.6	2.0	5
BJK250-800U	800	1600	60	250V	10.0	3.6	5.0	18.0	0.4	1.0	3
BJK250-1000U	1000	2000	60	250V	10.0	3.6	5.0	20.0	0.3	0.8	2
BJK250-1200U	1200	2400	60	250V	10.0	3.6	6.0	20.0	0.2	0.8	2
BJK250-1500U	1500	3000	60	250V	10.0	4.8	7.5	20.0	0.2	0.6	1.5
BJK250-2000U	2000	4000	60	250V	10.0	4.8	10.0	20.0	0.2	0.4	1.5

I_{hold} Hold current: Maximum current the thermistor will sustain without tripping at 25°C ambient temperature for 1hr

I_{trip} Trip current: Lowest current at which the thermistor will trip by default at 25°C ambient temperature

V_{max} Maximum voltage the thermistor can withstand without damage at rated current (I_{max})

I_{max} Maximum fault current device can withstand without damage at rated voltage (V_{max})

P_d The power dissipating from the thermistor when it is in tripped state at 25°C ambient temperature.

$R_{min/max}$ Minimum/Maximum resistance of the thermistor before an initial trip event

R_{1max} Maximum resistance of the thermistor 1 hour after the initial trip event, measured at 25°C ambient temperature

*CAUTION: Operation beyond the specified rating may result in damage and possible arcing. The thermistors are intended for protection against occasional overcurrent or over-temperature faults and should not be used when repeated fault conditions are anticipated.

Ordering Information

Series No.	Operating Current	Packaging	Quantity	Purchase Order No.
BJK250				

Product Dimensions (in mm) and Packing Information

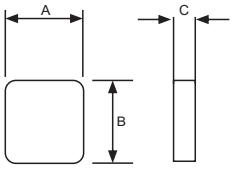


Fig. 1

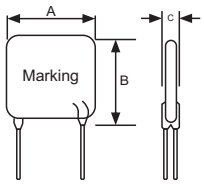


Fig. 2

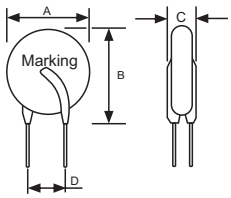


Fig. 3

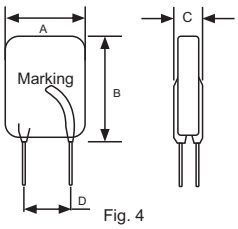


Fig. 4

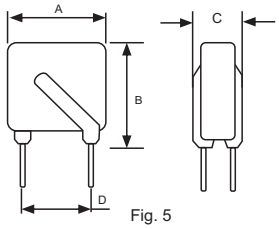


Fig. 5

Model	Fig.	Quantity	A(max)	B(max)	C(max)	D(type)
BJK250-020U	1	1000	7.4	12.7	4.6	5.1
BJK250-030U	1	1000	7.4	12.7	4.6	5.1
BJK250-040U	1	1000	7.4	12.7	4.6	5.1
BJK250-060U	1	1000	7.4	12.7	4.6	5.1
BJK250-080U	1	1000	7.4	12.7	4.6	5.1
BJK250-090U	1	1000	7.4	12.7	4.6	5.1
BJK250-100U	1	1000	7.8	12	4.6	5.1
BJK250-110U	3	1000	7.0	12.6	4.6	5.1
BJK250-120	4	1000	5.5	5.5	2.2	---
BJK250-120U	3	1000	7.0	12.6	4.6	5.1
BJK250-145U	3	1000	7.0	12.6	4.6	5.1
BJK250-180T	1	1000	10.2	14.5	4.2	5.1
BJK250-180U	3	1000	11.5	14.5	4.6	5.1
BJK250-200U	5	500	12.0	17.0	4.6	5.1
BJK250-400U	5	500	12.0	17.0	4.6	5.1
BJK250-600U	5	500	16.0	18.0	4.6	5.1
BJK250-800U	5	200	20.0	22.5	4.6	5.1
BJK250-1000U	5	200	20.0	22.0	4.6	5.1
BJK250-1200U	5	200	22.0	28.0	4.6	5.1
BJK250-1500U	5	200	25.0	30.0	4.6	5.1
BJK250-2000U	5	200	26.0	32.0	4.6	10.2

NOTE: The package quantity refers to one bag (unit: pcs).

Physical Characteristics

Model	Lead Material
BJK250-020U ~ BJK250-600U	Thin plated copper, 22AWG Ø0.60mm
BJK250-800U ~ BJK250-2000U	Thin plated copper, 22AWG Ø0.80mm

Environmental Specifications

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

Storage conditions: 5°C ~ 40°C