

Spark Gap (SPG) Data Sheet

Features

- Approximately zero leaking current before clamping voltage
- Less decay at on/off state.
- High capability to withstand repeated lightning strikes.
- Low electrode capacitance(0.8pF) and high isolation(100M).
- RoHS compliant.
- Bilateral symmetrical.
- Temperature, humidity and lightness insensitive.
- Operating temperature: -40°C ~ +85°C
- Storage temperature: -40°C ~ +125°C
- Meets MSL level 1, per J-STD-020
- Safety certification: UL: E244458



Applications

- Power Supplies
- Motor sparks eliminating
- Relay switching spark absorbing
- Data line pulse guarding
- Electronic devices requiring UL497A and UL497B compliant
- Telephone/Fax/Modem
- High frequency signal transmitters/receivers
- Satellite antenna
- Radio amplifiers
- Alarm systems
- Cathode ray tubes in Monitors/TVs

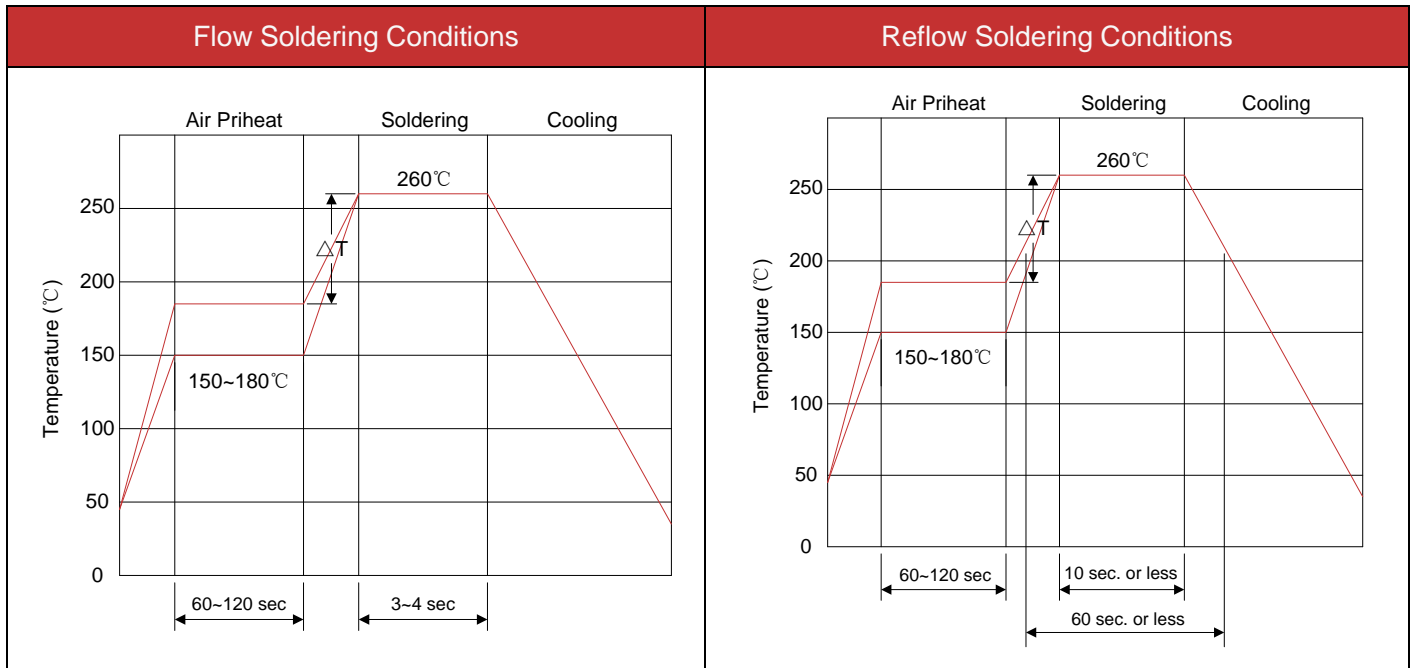
Dimensions

	Symbol	Dimension (mm)
	L	6.0±0.5
	D	3.3±0.5
	d	3.1±0.5
t	0.4±0.1	

Electrical Characteristics

Part Number ①	DC Spark-over Voltage	Minimum Insulation Resistance		Maximum Capacitance (1KHz-6V _{MAX})	Surge Current Capacity (8/20μs)
	V _s (V)	Test Voltage(V)	I _{R_{OHM}} (M)	C(pf)	
BK1XX00702-M	140	50	100	0.8	3000A
BK1XX01002					

Recommended Soldering Conditions



- 1) Time shown in the above figures is measured from the point when chip surface reaches temperature.
- 2) Temperature difference in high temperature part should be within 110°C.
- 3) After soldering, do not force cool, allow the parts to cool gradually.

Hand Soldering

Solder iron temperature: 350±5°C
 Heating time: 3 seconds max.

General attention to soldering

High soldering temperatures and long soldering times can cause leaching of the termination, decrease in adherence strength, and the change of characteristic may occur.

For soldering, please refer to the soldering curves above. However, please keep exposures to temperatures exceeding 200°C to fewer than 50 seconds.

Please use a mild flux (containing less than 0.2wt% Cl). Also, if the flux is water soluble, be sure to wash thoroughly to remove any residue from the underside of components that could affect resistance.

Cleaning

When using ultrasonic cleaning, the board may resonate if the output power is too high. Since this vibration can cause cracking or a decrease in the adherence of the termination, we recommend that you use the conditions below.

Frequency: 40kHz max.
 Output power: 20W/liter
 Cleaning time: 5 minutes max.

Packaging

Tape	Symbol	Dimension (mm)	
	W	16.00±0.20	
	P0	4.00±0.10	
	P1	8.00±0.10	
	P2	2.00±0.10	
	D0	1.5±0.10	
	E	1.75±0.10	
	F	7.50±0.05	
	A0	3.50±0.10	
	B0	6.50±0.10	
	K0	3.50±0.10	
	T	0.50Max.	
	Reel	D	330.0±3.0
		d	13.0±1.0
L		20.0±3.0	
Quantity: 2000PCS			

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