ELECTRIC SPECIFICATION

Electric Characteristics

Model	V _{max}	I _{max}	I _{hold}	I _{trip}	P_d	Maximum Time To Trip		Resistance	
Model	(V)	(A)	@25°C (A)	@25°C (A)	Тур. (W)	Current (A)	Time (Sec)	Ri _{min} (Ω)	$R1_{max}$ (Ω)
BpS06-200-30	30	100	0.20	0.46	0.6	1.00	0.60	0.600	2.600

Ihold = Hold Current. Maximum current device will sustain for 30min without tripping in 25°C still air.

Itrip = Trip Current. Minimum current at which the device will trip in 25°C still air.

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

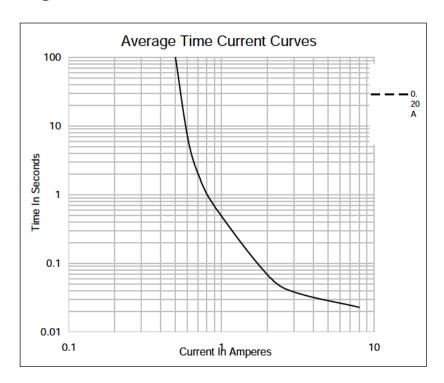
Imax = Maximum fault current device can withstand without damage at rated voltage.

 $\mathbf{Pd_{typ}}$ = Power dissipated from device when in the tripped state at 25°C still air.

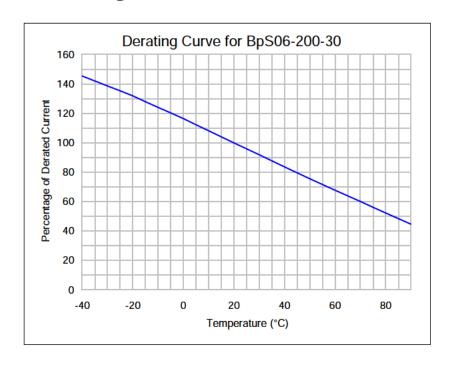
Rityp = Typical resistance of device in initial (un-soldered) state.

R1max = Maximum resistance of device at 25°C measured one hour post reflow.

Average Time Current Curve



Thermal Derating Curv ϵ

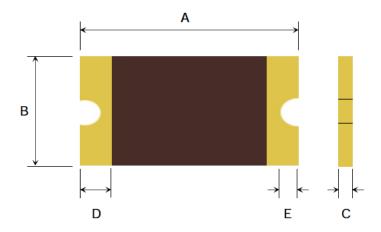


MECHANICAL SPECIFICATIONS

Physical Dimensions (unit: mm)

Model	Α		В		С		D	Е
Wodel	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Min.
BpS06-200-30	3.00	3.50	1.50	1.80	0.40	0.90	0.15	0.10

Outline Drawing



Plating

Terminal Pad Materials: Gold-Plated Nickel-Copper

4. ENVIRONMENT

4-1. Operating Conditions

Operating Temperature : -40°C to 85°C

Device Surface Temperature : 125°C maximum

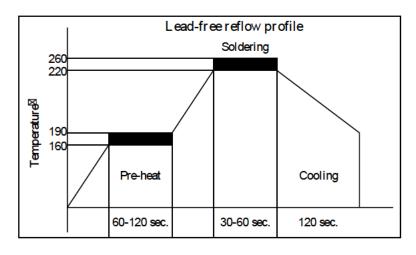
4-2. Environmental Specifications

The device specified follows the UL Standard for Safety for Thermistor-Type Devices, UL1434, April 3, 2000 Edition.

TEST ITEM	EVALUATION	MEASUREMENT
Resistance/Temperature	The measured resistance at various temperatures	Resistance
(R/T)	were recorded for each "as-received" and "after	and
Measurement	conditioning" sample.	Temperature
1000 Hour	Each sample was conditioned by letting the devices	R/T Curves before
Thermal Aging	remain in their "tripped" state for 1000 hours.	and after each test
Heat-Cold-	24 hrs at the steady-state temperature,	R/T Curves before
Humidity Cycling	168 hrs at a relative humidity of 90 - 95% at 40°C	and after each test
	8 hrs at 0°C.	
Overload	50 cycles at a 120% maximum current (Imax) and	R/T Curves before
and	maximum voltage (Vmax).	and after each test
Endurance	6,000 cycles at a maximum voltage and current	
	over than a 300% trip current (Itrip).	
Cold Operational	1,000 cycles in the Endurance Test, except	R/T Curves before
	the samples were operated in a freezer at 0°C.	and after each test
Thermal Runaway	0 volt to 200% of Vmax at 2-minute intervals.	No burning, arcing
	The 200% voltage was maintained for 2 minutes.	and breakdown

^{*}All samples shall be mounted on PCB before testing.

4-3. Solder reflow conditions



Devices are not designed Recommended maximum Devices can be cleaned to Soldering temprature pro	nethods: IR, vapor phase oven, hot air oven, Not to be wave soldered to the bottom side of the paste thickness is 0.25mm (0.010inch). Using standard industry methods and solvents offile meets RoHs leadfree process. It tures exceed the recommended profile, devicativements.	e board.