



**HCRTP-MINI-B** 

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High Current Reflowable Thermal Protection Mini (HCRTP-MINI-B) Device is a low-resistance, robust surface mountable thermal protector. It has a set open temperature and can be installed using reliable, lead-free, Surface Mount Device (SMD) assembly and reflow processes.

The new HCRTP-MINI-B device, recently added to the RTP family, can help withstand the demanding environmental, life and reliability requirements of automotive and industrial applications, including shock, vibration, temperature cycling and humidity exposures. In the field, the HCRTP-MINI-B device opens if its internal junction exceeds the device's specified open temperature. Temperature increases can have multiple sources, one of which is component failure (e.g., when using power components such as a powerFET, capacitor, resistor, triac, etc.) The HCRTP-MINI-B device open temperature is selected so that the device does not open within normal component operating windows, but it does open in a thermal runaway event and before the melt temperature of typical lead-free solders.

#### **Specifications**

### **Ordering Information**

Part Number	Part Description	Package Size
RF4539-000	HCRTP-MINI-B	4000

#### Referenced Performance

Performance	Min	Тур.	Max	Units	
Post Reflow Resistance*	@ 23+/-3°C	50	100	150	μΩ
	@ 150+/-3°C	110	155	200	
Hold Current	@ 23+/-3°C			90	А
Hold Current	@ 140+/-3°C			45	A
Max Interrupt Current	16 VDC			500	Α
Open Temperature	Zero Bias	212	220	228	°C

<sup>\*</sup>Post reflow Resistance should be measured by a 4 wired method





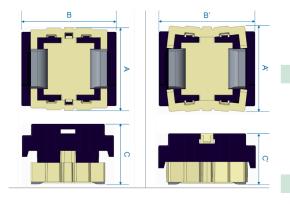




<sup>\*</sup> Halogen Free refers to: Br≤900ppm, Cl≤900ppm, Br+Cl≤1500ppm

#### **Dimensions**

Dimensions in mm



# Before Mechanical Arming

	A		В		С	
	Min	Max	Min	Max	Min	Max
mm	6.14	7.14	7.00	8.00	4.80	5.20
in	0.242	0.281	0.276	0.315	0.189	0.205

### After Mechanical Arming

	A'		B'		C'	
	Min	Max	Min	Max	Min	Max
mm	6.83	7.83	7.00	8.00	3.80	4.20
in	0.269	0.308	0.276	0.315	0.150	0.165

#### Rev 07302019

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