

**SERIES:** HSS-B20-01 | **DESCRIPTION:** HEAT SINK**FEATURES**

- TO-220 package
- available with and without solder pin
- slide in style for easy component attachment
- black anodized finish

**MODEL**

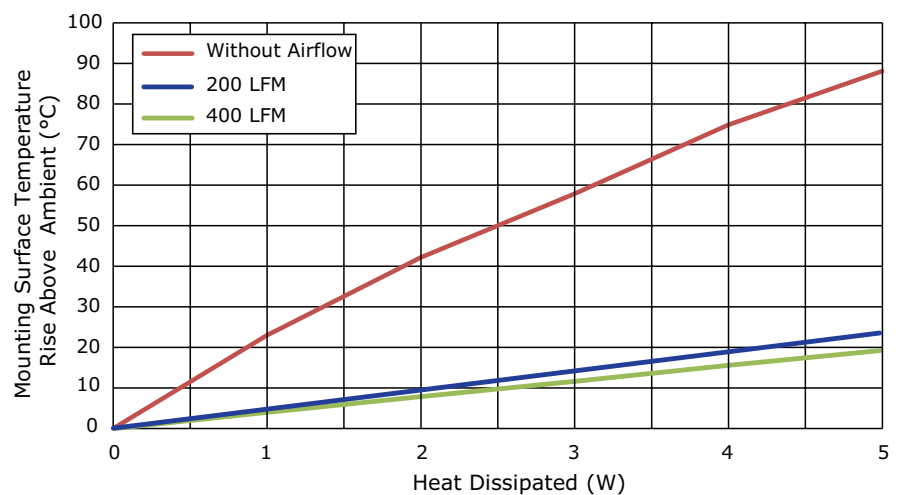
|               | solder pin  |                | thermal resistance <sup>1</sup> |                              |                             |                             | power dissipation <sup>1</sup> |
|---------------|-------------|----------------|---------------------------------|------------------------------|-----------------------------|-----------------------------|--------------------------------|
|               | orientation | length<br>[mm] | @ 75°C ΔT, nat<br>conv [°C/W]   | @ 1 W,<br>nat conv<br>[°C/W] | @ 1 W,<br>200 LFM<br>[°C/W] | @ 1 W,<br>400 LFM<br>[°C/W] | @ 75°C ΔT, nat<br>conv [W]     |
| HSS-B20-061H  | horizontal  | 6.1            | 18.63                           | 23.05                        | 5.01                        | 4.01                        | 4.02                           |
| HSS-B20-0953H | horizontal  | 9.53           | 18.63                           | 23.05                        | 5.01                        | 4.01                        | 4.02                           |
| HSS-B20-065V  | vertical    | 6.5            | 18.63                           | 23.05                        | 5.01                        | 4.01                        | 4.02                           |
| HSS-B20-NP    | no pin      | --             | 18.63                           | 23.05                        | 5.01                        | 4.01                        | 4.02                           |

Note: 1. See performance curves for full thermal resistance details.

**PERFORMANCE CURVES**

| Power<br>[W] | Heatsink Temperature Rise Above<br>Ambient (ΔT = Ths - Ta) [°C] |         |         |
|--------------|-----------------------------------------------------------------|---------|---------|
|              | Natural<br>Conv.                                                | 200 LFM | 400 LFM |
| 0            | 0                                                               | 0       | 0       |
| 1            | 23.05                                                           | 5.01    | 4.01    |
| 2            | 42.19                                                           | 9.68    | 7.89    |
| 3            | 57.90                                                           | 14.39   | 11.64   |
| 4            | 74.85                                                           | 18.96   | 15.57   |
| 5            | 88.08                                                           | 23.63   | 19.26   |

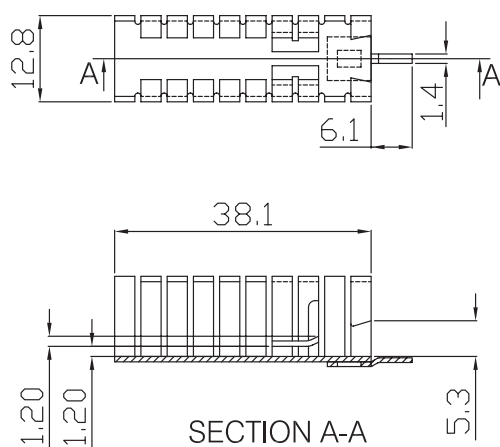
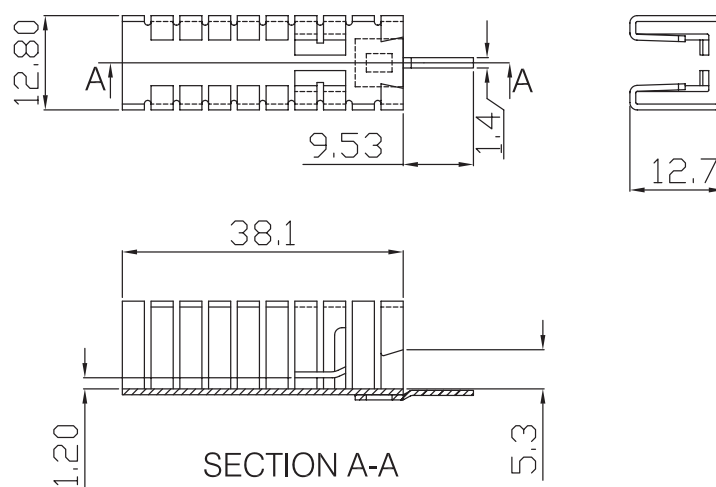
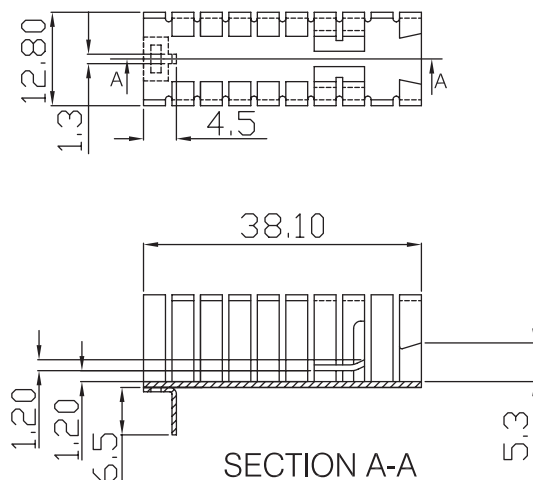
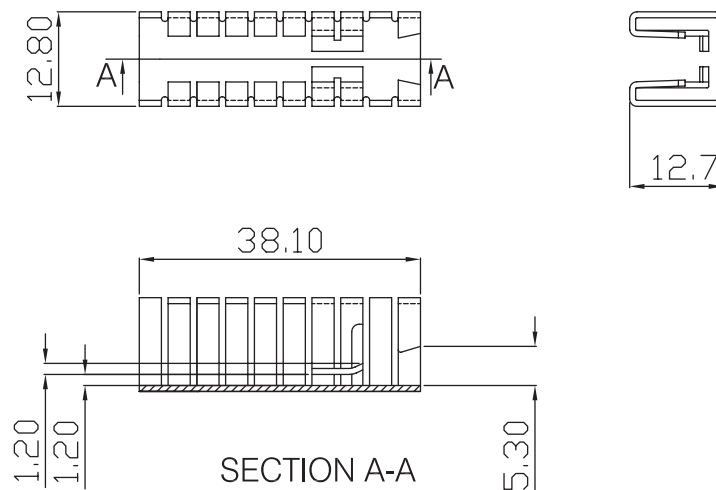
Ths: "hot spot" temperature measured on the heatsink  
Ta: ambient temperature



## MECHANICAL DRAWING

units: mm  
tolerance:  $\pm 0.5$  mm

|              |                                                                                         |
|--------------|-----------------------------------------------------------------------------------------|
| MATERIAL     | AL5052                                                                                  |
| FINISH       | black anodized                                                                          |
| THICKNESS    | 0.8 mm                                                                                  |
| PIN MATERIAL | brass                                                                                   |
| PIN PLATING  | tin                                                                                     |
| WEIGHT       | HSS-B20-061H: 3.1 g<br>HSS-B20-0953H: 3.1 g<br>HSS-B20-065V: 3.1 g<br>HSS-B20-NP: 3.0 g |

**HSS-B20-061H****HSS-B20-0953H****HSS-B20-065V****HSS-B20-NP**

## REVISION HISTORY

| rev. | description                  | date       |
|------|------------------------------|------------|
| 1.0  | initial release              | 03/29/2017 |
| 1.01 | brand update                 | 02/11/2020 |
| 1.02 | logo, datasheet style update | 08/05/2022 |

The revision history provided is for informational purposes only and is believed to be accurate.



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