

MODEL: HSS-B20-053H-01 | DESCRIPTION: HEAT SINK

FEATURES

- TO-220 package
- round hole for component attachment
- solder pins for secure PCB mounting
- black anodized finish



MODEL

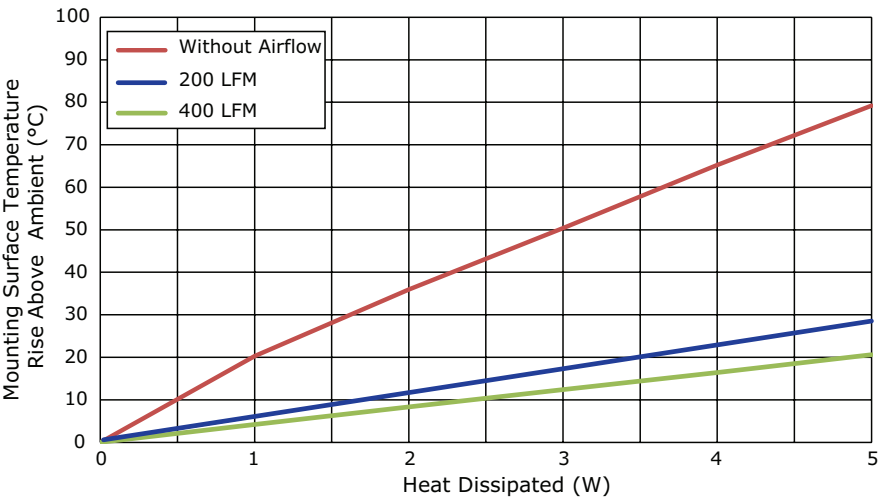
|                 | thermal resistance <sup>1</sup> |                        |                       |                       | power dissipation <sup>1</sup> |
|-----------------|---------------------------------|------------------------|-----------------------|-----------------------|--------------------------------|
|                 | @ 75°C ΔT, nat conv [°C/W]      | @ 1 W, nat conv [°C/W] | @ 1 W, 200 LFM [°C/W] | @ 1 W, 400 LFM [°C/W] | @ 75°C ΔT, nat conv [W]        |
| HSS-B20-053H-01 | 15.79                           | 20.27                  | 5.83                  | 4.22                  | 4.75                           |

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

PERFORMANCE CURVES

| Power [W] | Heatsink Temperature Rise Above Ambient (ΔT = T <sub>hs</sub> - T <sub>a</sub> ) [°C] |         |         |
|-----------|---------------------------------------------------------------------------------------|---------|---------|
|           | Natural Conv.                                                                         | 200 LFM | 400 LFM |
| 0         | 0                                                                                     | 0       | 0       |
| 1         | 20.27                                                                                 | 5.83    | 4.22    |
| 2         | 35.97                                                                                 | 11.51   | 8.34    |
| 3         | 50.37                                                                                 | 17.06   | 12.42   |
| 4         | 65.25                                                                                 | 22.79   | 16.41   |
| 5         | 79.19                                                                                 | 28.53   | 20.60   |

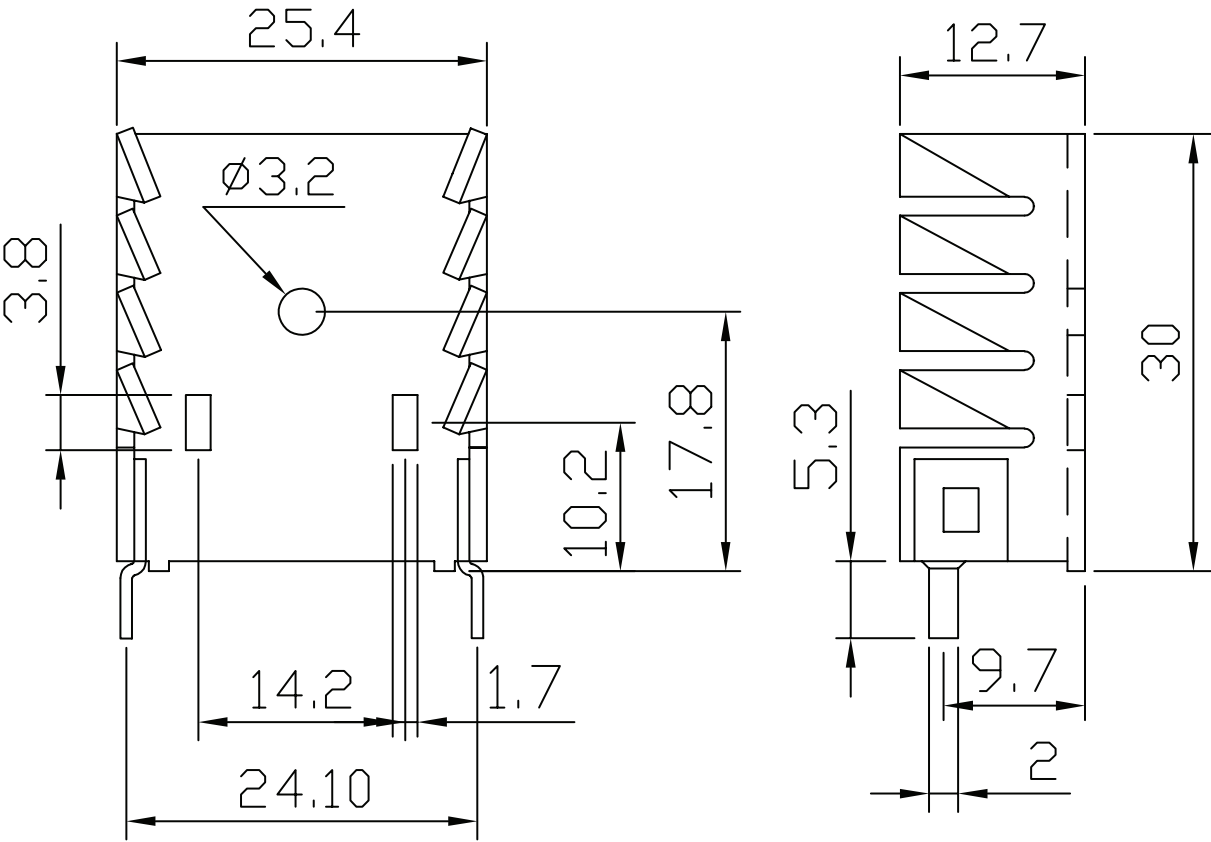
T<sub>hs</sub>: "hot spot" temperature measured on the heatsink  
T<sub>a</sub>: ambient temperature



MECHANICAL DRAWING

units: mm  
tolerance: ±0.5 mm

|              |                |
|--------------|----------------|
| MATERIAL     | AL1050         |
| FINISH       | black anodized |
| THICKNESS    | 1.2 mm         |
| PIN MATERIAL | brass          |
| PIN PLATING  | tin            |
| WEIGHT       | 5.0 g          |



REVISION HISTORY

| rev. | description                       | date       |
|------|-----------------------------------|------------|
| 1.0  | initial release                   | 03/31/2017 |
| 1.01 | brand update                      | 02/12/2020 |
| 1.02 | updated drawing                   | 04/18/2022 |
| 1.03 | logo, datasheet style update      | 08/05/2022 |
| 1.04 | CUI Devices rebranded to Same Sky | 09/12/2024 |

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



Same Sky offers a one (1) year limited warranty. Complete warranty information is listed on our website.

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