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## Jameco Part Number 2039785



# **Surface Mount Heat Sinks** For D-PAK, D<sup>2</sup>PAK, D<sup>3</sup>PAK, and SO-10



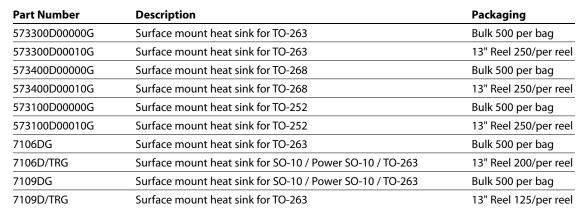
## NEW RoHS Compliant SURFACE MOUNT HEAT SINKS

The Aavid Thermalloy line of low profile surface mount heat sinks are suitable for SMT power semiconductor devices in D-PAK, D<sup>2</sup>PAK, D<sup>3</sup>PAK and SO-10 packages. Their unique design removes heat indirectly through conduction without making contact with the SMT device like traditional through hole solutions. The semiconductor's conventional copper drain pad is modified to extend beyond the edges of the semiconductor package providing space to mount the heat sink. The device and heat sink are soldered directly to the modified drain pad creating a thermal transfer path from the package tab to the surface mount heat sink. In addition, the elevated "Wings" of the heat sink provide ample surface area to dissipate the heat into the surrounding environment.

## **FEATURES AND BENEFITS:**

- RoHS compliant 100% matte tin plating with nickel underplate
- No attachment holes required in the printed circuit board
- Wing configuration will not interfere with adjacent components
- Available in tape and reel packaging for use with automated SMT pick and place equipment
- Compatible with both tin-lead and lead free (Sn/Aq/Cu) solders

#### **ORDERING INFORMATION:**



FOR MORE INFORMATION, VISIT OUR WEB SITE: WWW. AAVIDTHERMALLOY.COM TEL: (603) 224-9988







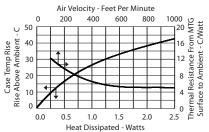
## **APPLICATIONS:**

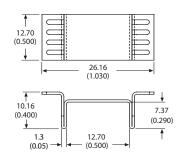
- Power Supplies
- Telecommunication Equipment
- Motor Controls
- Medical Equipment
- Industrial Process Control Equipment
- Consumer Products



Part Number 573300 Heat Sink for D<sup>2</sup>PAK (TO-263)

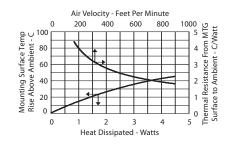


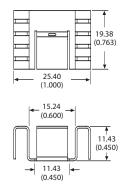




Refer to Figures A and B on back page for device footprint information

## Part Number 7109 Heat Sink for D<sup>2</sup>PAK (TO-263)



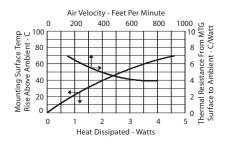


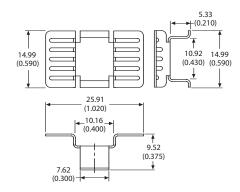
Refer to Figure D on back page for device footprint information

## Part Number 7106

Heat Sink for D<sup>2</sup>PAK (TO-263), SO-10, and Power SO-10<sup>™</sup> (MO-184)







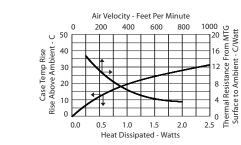
Refer to Figure C on back page for device footprint information

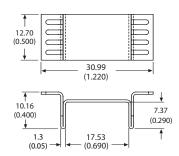
TEL: (603) 224-9988

for D-PAK and D<sup>3</sup>PAK Packages



## Part Number 573400 Heat Sink for D<sup>3</sup>PAK (TO-268)

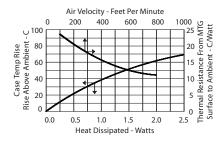


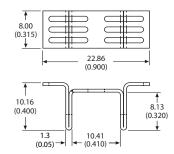


Refer to Figures A and B on back page for device footprint information

## Part Number 573100 Heat Sink for D-PAK (TO-252)





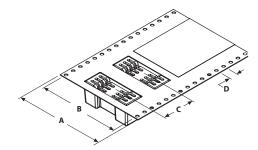


Refer to Figures A and B on back page for device footprint information

## Tape and Reel Information



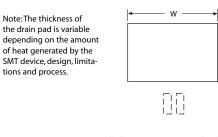
| PART NUMBER   | "A"         | "B"         | "C"         | "D"        |
|---------------|-------------|-------------|-------------|------------|
| 7106D/TRG     | 44.0 (1.73) | 40.4 (1.59) | 24.0 (0.94) | 4.0 (0.16) |
| 7109D/TRG     | 44.0 (1.73) | 40.4 (1.59) | 36.0 (1.42) | 4.0 (0.16) |
| 573100D00010G | 44.0 (1.73) | 40.4 (1.59) | 16.0 (0.63) | 4.0 (0.16) |
| 573300D00010G | 44.0 (1.73) | 40.4 (1.59) | 24.0 (0.94) | 4.0 (0.16) |
| 573400D00010G | 44.0 (1.73) | 40.4 (1.59) | 24.0 (0.94) | 4.0 (0.16) |



# **Heat Sink Mounting Footprints**

#### **FIGURE A**

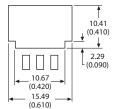
Recommended Copper Heat Speader Drain Pad Footprint



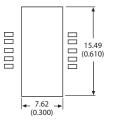
| Part No. | "L"           | "W"           |
|----------|---------------|---------------|
| 573100   | 9.53 (0.375)  | 13.97 (0.550) |
| 573300   | 14.22 (0.560) | 16.26 (0.640) |
| 573400   | 14.22 (0.560) | 21.08 (0.830) |

## **FIGURE C**

Recommended Copper Pad Size for Heat Sink and Device Mounting Footprint



For D Pak (TO-263)

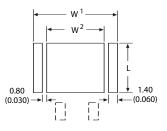


L

For MO-184 and SO-10

## **FIGURE B**

Recommended Heat Sink Solder Mask Opening



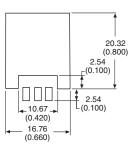
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| Part No. | "L"           | "W1″          | "W2"          |
|----------|---------------|---------------|---------------|
| 573100   | 9.02 (0.355)  | 13.46 (0.530) | 8.89 (0.350)  |
| 573300   | 13.72 (0.540) | 15.75 (0.620) | 11.18 (0.440) |
| 573400   | 13.72 (0.540) | 20.57 (0.810) | 16.00 (0.630) |

## **FIGURE D**

Recommended Copper Pad Size for Heat Sink and Device Mounting Footprint



## North America

80 Commercial Street Concord, NH 03301 TEL: (603) 224-9988 FAX: (603) 223-1790 EMAIL: info@aavid.com ViaXXV Aprile, 32 40057 Cadriano (BO), Italy TEL: (39) 051 764011 FAX: (39) 051 764090 EMAIL: sales.it@aavid.com

Europe - Italy

Europe - England Cheney Manor Swindon SN2 2QN England TEL: 44(0) 1793 401400 FAX: 44(0)1793 615396 EMAIL: sales.uk@aavid.com Asia - Taiwan 14F-4, NO. 79, Hsin Tai Wu RD. SEC. 1, Hsi Chih Taipei Hsien Taiwan. TEL: 011(886) 2–2698–9888 FAX: 011(886) 2–2698–9808 Asia - Singapore

5 Woodlands Industrial Park E1 Singapore 757728 TEL: 65 –6362–8388 FAX: 65–6362–8588

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