



Smart Heatsinks

Unlike Any Others

U-Series Universal Mount Heat Sinks

For all kinds of device packages



Smart Heatsinks®, Inc. introduces U-series (Universal), high performance, low cost and versatile heat sink with screw or clip for all kinds of standard packages. This type of heat sink provides both vertical and horizontal mounting options on PCB to accommodate natural and forced convection cooling

FEATURES AND BENIFITS

• Minimum assembly cost and labor

Spring Clips make the mounting holes and fasteners obsolete in assembly operations & reduce costs.

• Dual Modes Thermal Transfer

Efficient cooling with either natural or forced convection heat transfer mode by different orientation mounting.

• Design Flexibility

Universal mountable and “*one fits all*” give designers total freedom to fit their packaging designs with ideal device pak style and to orient the heat sink to meet their power dissipations with optimized cooling method.

SPECIFICATOINS

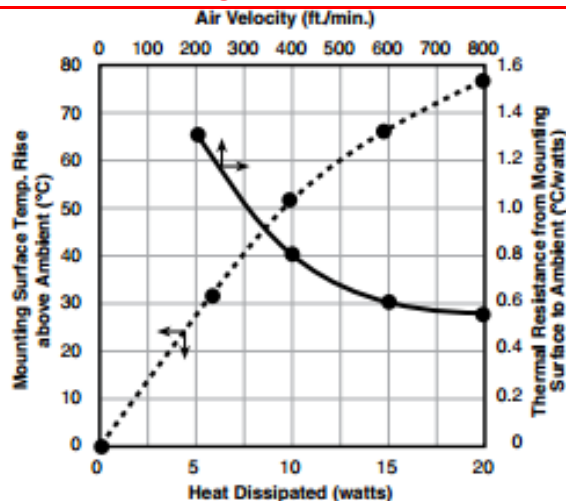
Heat Sink: Aluminum Alloy 6063-T5 or Equivalent with either degeased or black anodized finish.

Spring Clip: Music Wire, Per ASTM A228 with bright nickel plating

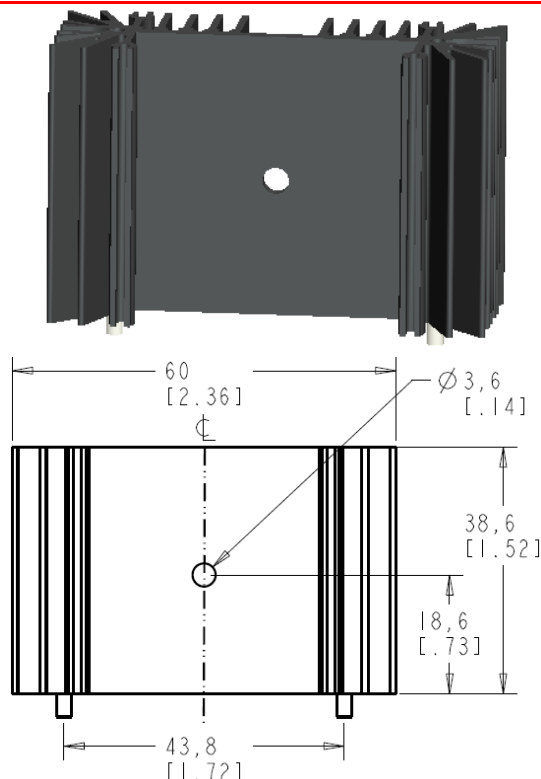
Solder Foot: Cold-rolled Steel, Per ASTM A-366 with pure tin over copper strike. RoSH compliant.

Insulator (Optional): t-Global H48-1, L37-3F and H48-6S. The thickness of the insulating material not to exceed 10 mil (0.01”).

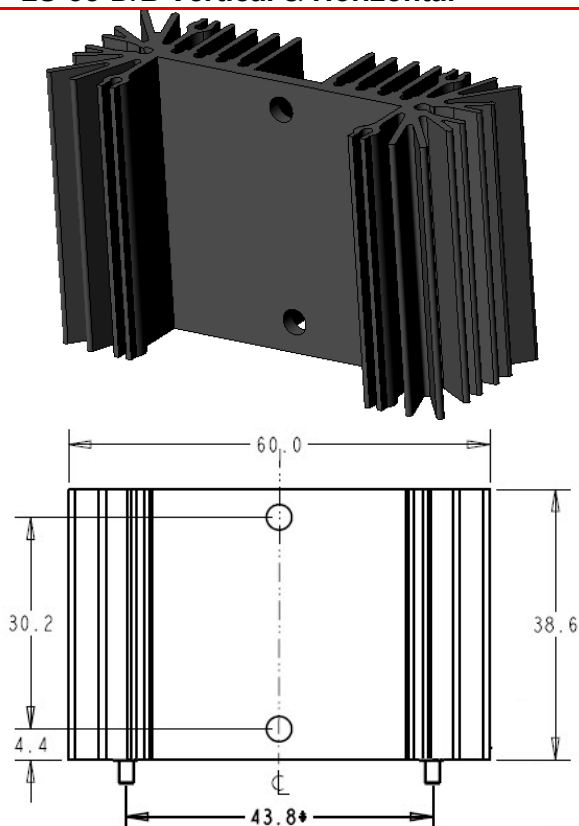
THERMAL PERFORMANCE



UV- 1S-38-D/B & UV- 1C-38-D/B - Vertical



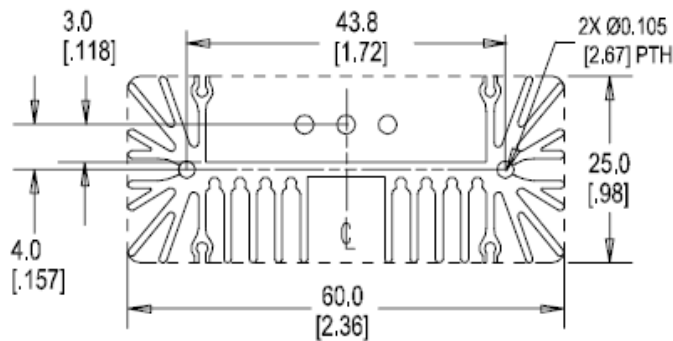
UV- 2S-38-D/B Vertical & Horizontal



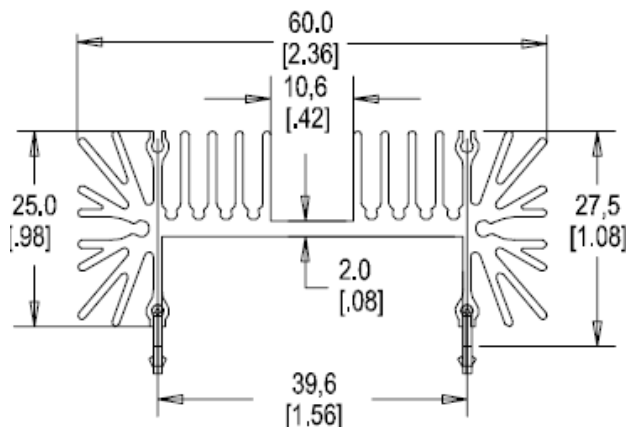
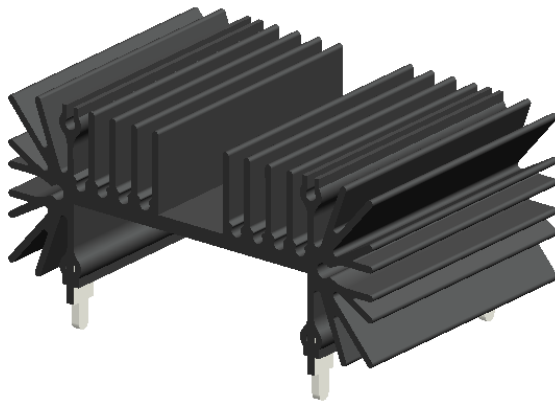
Heat Sink Part Number	Surface Area (in ² / mm ²)	Weight (oz/g)	Accessory
UV -1S -39-D	39.6/25,546	1.48/42	1 screw, nut and washers
UV -1S -39-B			No screw. Use
UV -0S -39-D			spring clip
UV -0S -39-B			2 screws, nuts & washers
UV -2S -39-D			
UV -2S -39-B			

eat Sink Part Number	Surface Area (in ² / mm ²)	Weight (oz/g)	Accessory
VH -1S -39-D	39.6/25,546	1.48/42	1 screw, nut
VH -1S -39-B			and washers
VH -0S -39-D			No screw. Use
VH -0S -39-B			spring clip
VH -2S -39-D			2 screws, nuts
VH -2S -39-B			& washers

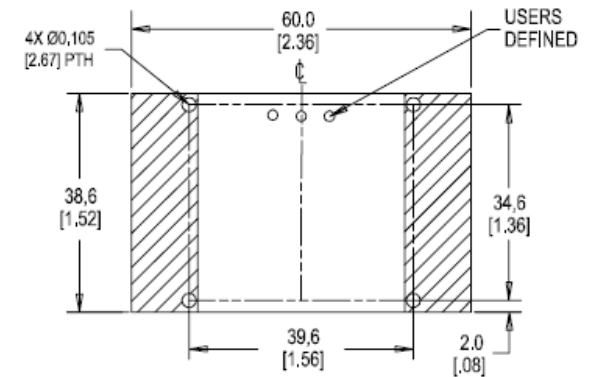
LAND PATTERN



UH- 1S/2S-38-D/B & UH- 1C-38-D/B–Horizontal



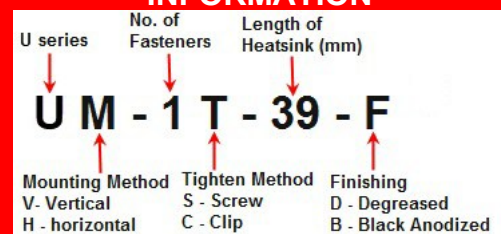
LAND PATTERN



STANDARD PART NUMBER FOR U - SERIES HEATSINKS

Part Number	Descriptions	Packaging
UV-1S-39-D	Vertical Heatsink, degreased	Bulk
UV-1S-39-B	Vertical Heatsink, black	Bulk
UV-0S-39-D	Vertical Heatsink, degreased	Bulk
UV-0S-39-B	Vertical Heatsink, black	Bulk
UV-2S-39-D	Vertical Heatsink, degreased	Bulk
UV-2S-39-B	Vertical Heatsink, degreased	Bulk
UH-1S-39-B	Horiz Heatsink, degreased	Bulk
UH-1S-39-B	Horiz Heatsink, black anodiz	Bulk
UH-0S-39-D	Horiz Heatsink, degreased	Bulk
UH-0S-39-B	Horiz Heatsink, black anodiz	Bulk
UH-2S-39-D	Horiz Heatsink, degreased	Bulk
UH-2S-39-B	Horiz Heatsink, black anodiz	Bulk

HEAT SINK PART NUMBER INFORMATION





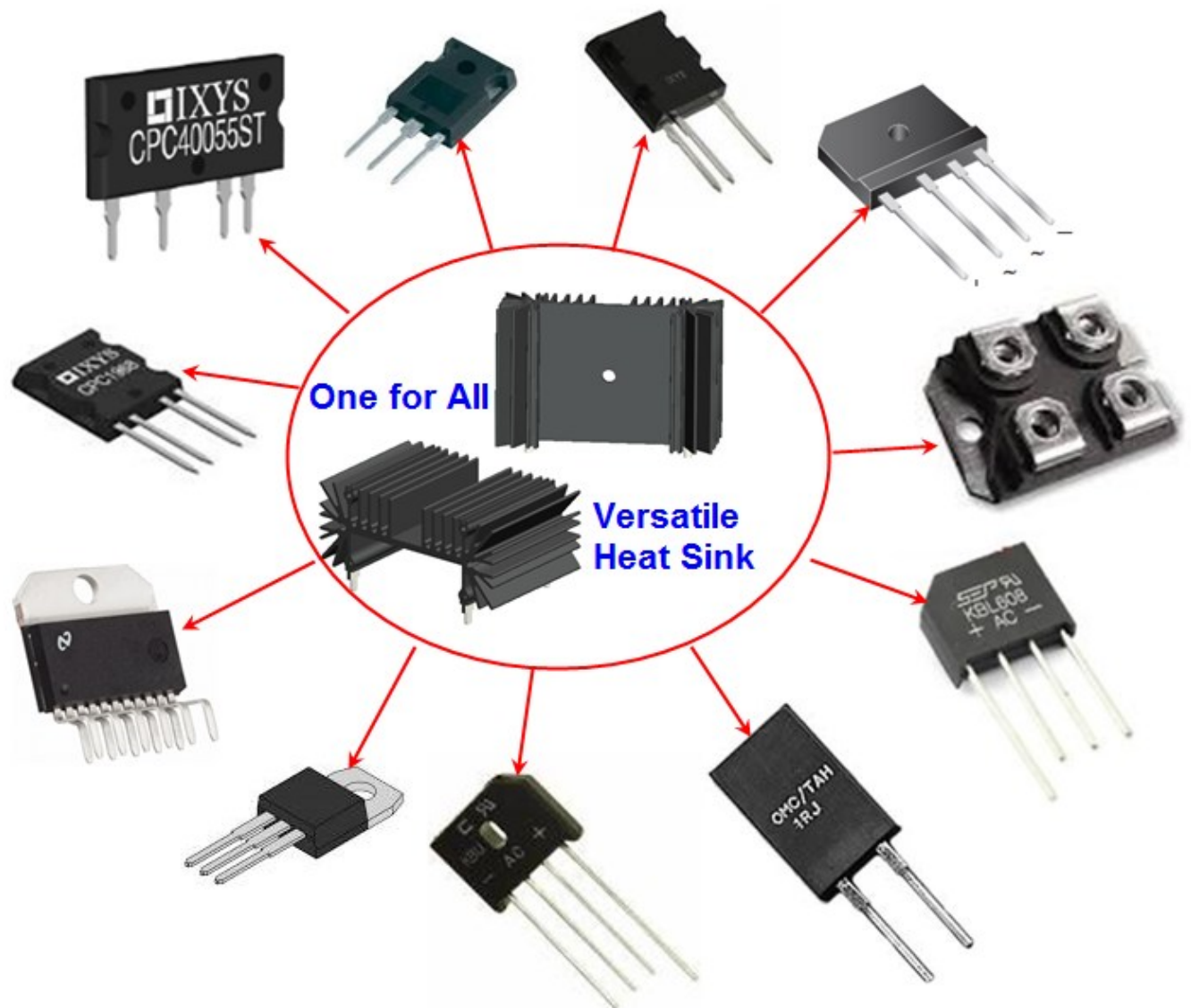
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One Heat sink fits all the kinds of packages





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The Different Packages Assembled on Heat Sink By Fasteners or Clips

