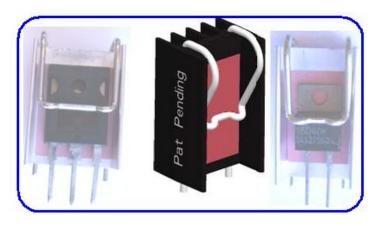
SHS UNIVERSAL MOUNTABLE, AUTO-ALIGN ALL-IN-ONE HEAT SINKS for TO-220, TO-247 & TO-264



W-series HEATSINKS UNIVERSAL MOUNTABLE

Smart Heatsinks®, Inc. introduces an innovation in SMT or THMT heat sinks to meet the needs of newer higher power semiconductors. The heat sinks' unique design (Patent Pending) combines the tin plated solderable integral spring clip with an extruded aluminum anodized or painted heat sink body to configure these heat sinks to be universal mountable onto PCB. Unlike any others, this type of heat sink provides ease of assembly and all-in-one solution (one part does all). It can be



configured to mount single or multiple devises, such as TO-220, TO-247, TO-264, TO-218 and D-Pak series power devices with either natural or forced convention cooling.

FEATURES AND BENEFITS:

Minimum assembly cost and labor Spring clip and auto-align feature makes fasteners and fixtures obsolete in assemblies.

Maximum Repeatability Clamping force on devices by resilient spring can be loaded and unloaded repeatedly without degrading the clamping force.

- Maximum Resistance to Shock & Vibration
 Light weight and resilient spring clip locks electronic component in place to provide maximum resistance to shock and vibration
- Maximum Reliability
 Resilient spring action locks electronic component in place and few parts in assembly. Prevent short circuit by eliminating metal particles generated from hardware or thread tapping.

APPLICATIONS:

- Power Suppliers
- Telecommunications
- Motor controls
- Medical Equipment
- Avionic Electronic
- Military Electronic
- Consumer Products
- Green Energy Products

MATERIALS

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

Spring Clip: Music Wire, Per ASTM A228 with Tin plating, 5.1 µm thick min. over 1.0 µm

min. copper undercoating.

Insulator (Optional): Sil-Pad 900-S, K6 800-S and K10

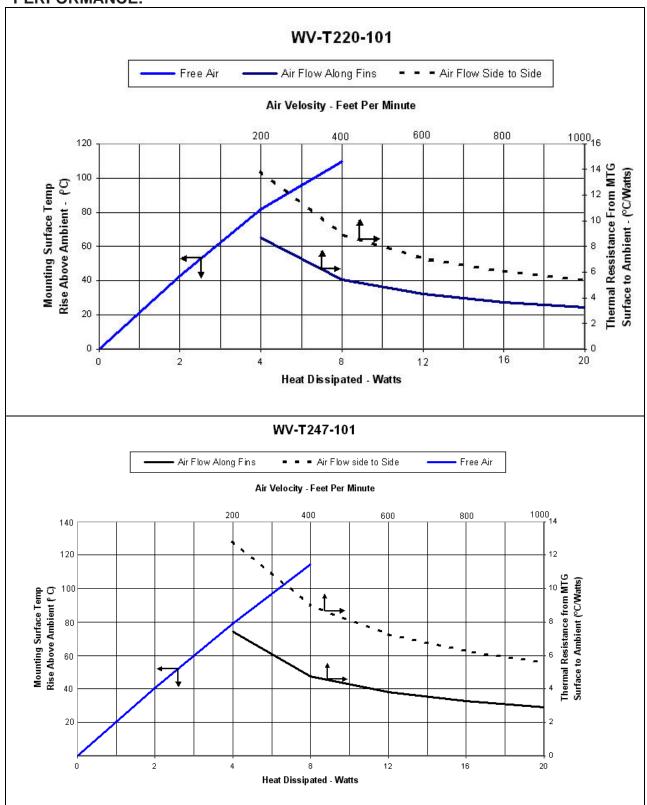
Mounting: Vertical or Horizontal

Thru-Hole Solder: Pin Protrusion MEETS CLASS 2 OR 3 OF IPC 610 STD

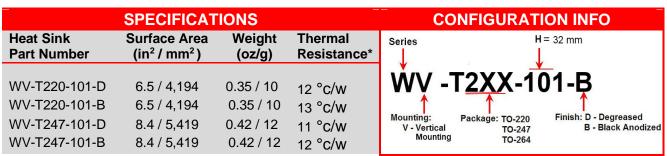
Clip Force: Clip Force 13.2 lbf min.



PERFORMANCE:



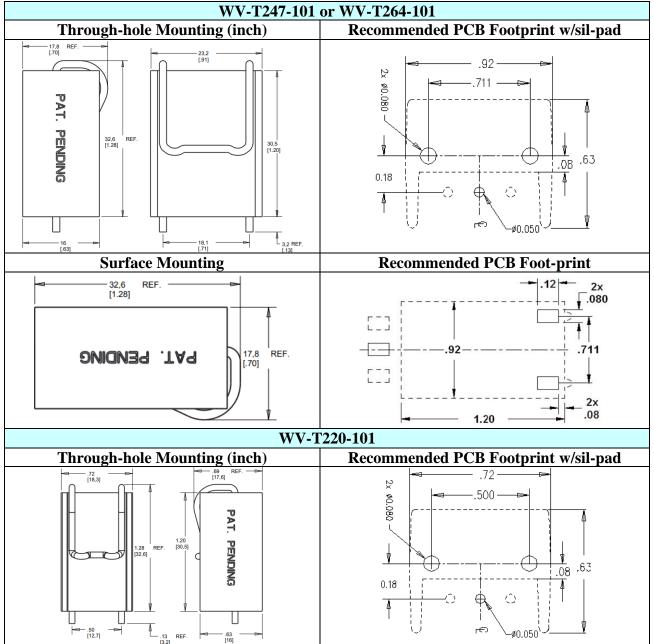




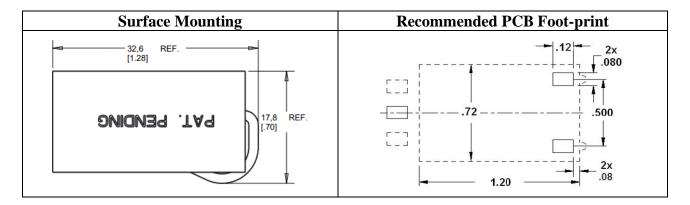
NOTE: TO-264 & TO-247 use the same heat sink

MECHANICAL OUTLINE:

FOOTPRINTS:

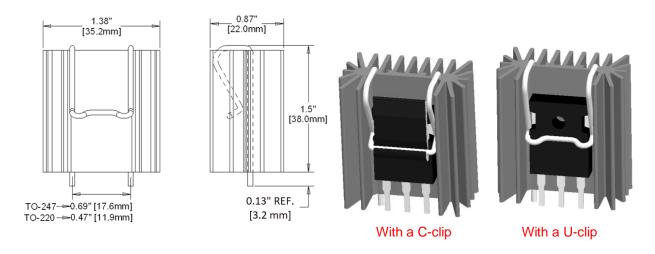






Universal Combo-Heatsinks

Smart Heatsinks introduces a universal mount Series (patent pending) combo heatsink which "kills three birds with one stone". One heat sink can fit TO-220 or TO-247 or TO-264 package with the option of using C or U clip.

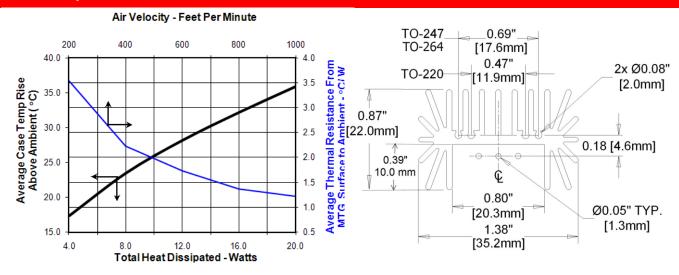


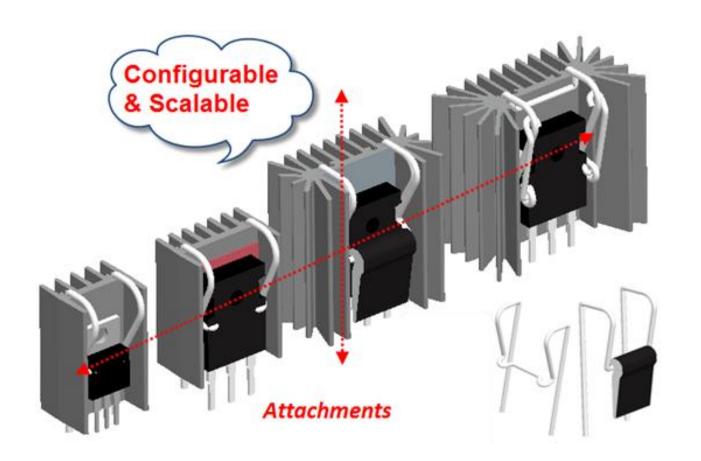
SPECIFICATIONS				CONFIGURATION INFO	
Heat Sink	Surface Area	Weight	Thermal	Clip Type: U - U-clip	
Part Number	(in² / mm²)	(oz/g)	Resistance*	Series C - C-clip Height (mm)	
WV-UT4-138-D	21 / 13,579	5.9 / 27	5.0 °C/W	Mounting: V - Vertical Mounting Wounting V - Vertical Mounting W - Vertical W - Vertical Mounting W - Vertical W - Vertical Mounting W - Vertical W - Ve	
WV-UT4-138-B	21 / 13,579	5.9 / 27	4.0 °C/W		
WV-CT4-138-D	21 / 13,579	6.4 / 29	5.0 °C/W		
WV-CT4-138-B	21 / 13,579	6.4 / 29	4.5 °C/W		

Free Convection @20 Watts



TO-247 w/Sil-pad





SHS UNIVERSAL MOUNTABLE, AUTO-ALIGN ALL-IN-ONE HEAT SINKS for TO-220, TO-247 & TO-264



ORDERING INFORMATION:

Part Number Descriptions		Packaging
WV-T220-101-D	Heat sink for TO-220, degreased	Bulk
WV-T220-101-B	Heat sink for TO-220, black anodized	Bulk
WV-T247-101-D	Heat sink for TO-247and TO-264, degreased	Bulk
WV-T247-101-B	Heat sink for TO-247and TO-264, black anodiz	zed Bulk
Part Number	Descriptions	Packaging
WV-UT2-138-D	Heatsink for TO-220, degreased, with U-clip	Bulk
WV-UT2-138-B	Heatsink for TO-220, black anodized, with U-c	lip Bulk
WV-CT2-138-D	Heatsink for TO-220, degreased, with C-clip	Bulk
WV-CT2-138-B	Heatsink for TO-220, black anodized, with C-c	lip Bulk
WV-UT4-138-D	Heatsink for TO-247, degreased, with U-clip	Bulk
WV-UT4-138-B	Heatsink for TO-247, black anodized, with U-c	lip Bulk
WV-CT4-138-D	Heatsink for TO-247, degreased, with C-clip	Bulk
WV-CT4-138-B	Heatsink for TO-247, black anodized, with C-c	lip Bulk
WV-UT6-138-D	Heatsink for TO-264, degreased, with U-clip	Bulk
WV-UT6-138-B	Heatsink for TO-264, black anodized, with U-c	lip Bulk
WV-CT6-138-D	Heatsink for TO-264, degreased, with C-clip	Bulk
WV-CT6-138-B	Heatsink for TO-264, black anodized, with C-c	lip Bulk