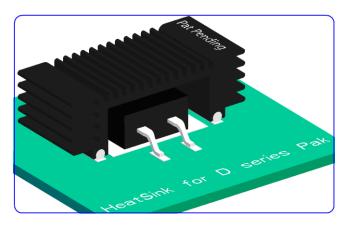


SMART HEATSINKS SURFACE MOUNT HEAT SINKS

Smart Heatsinks® introduces an innovation in SMT compatible heat sinks to meet the needs of newer higher power SMT semiconductors. The heat sinks' unique design (Patent Pending) combines the technology of automatically assembling the tin plated solderable wires/rods with that of extruded aluminum anodized or painted heat sink body to configure these SMT heat sinks. Rods/wires named "Rollers" are mated mechanically to the heat sink body by



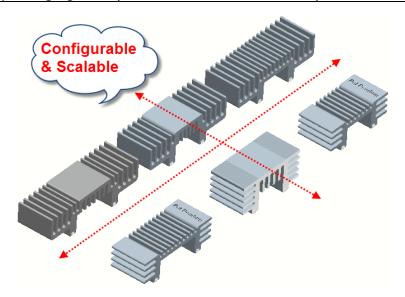
forging to reduce the interface thermal resistance between the drains & heat dissipation body.

FEATURES AND BENEFITS:

- Increased thermal performance up to 30% over bright copper heat sinks from improved radiation of the black finish
- Increased surface areas by 3 times therefore thermal performance up to 300% over the aluminum stamped heat sinks on markets
- Unique aluminum extrusion design reduces the heat sink cost versus similar designs utilizing copper
- Light weight aluminum construction allows faster pick and place assembly reducing the manufacturing cycle time
- Radius mounted "Rollers" are designed for maximizing heat transfer from component and to avoid "bottle neck" heat transfer like the Aluminum stamped from Aavid.
- Available in bulk packaging or Tape & Reel

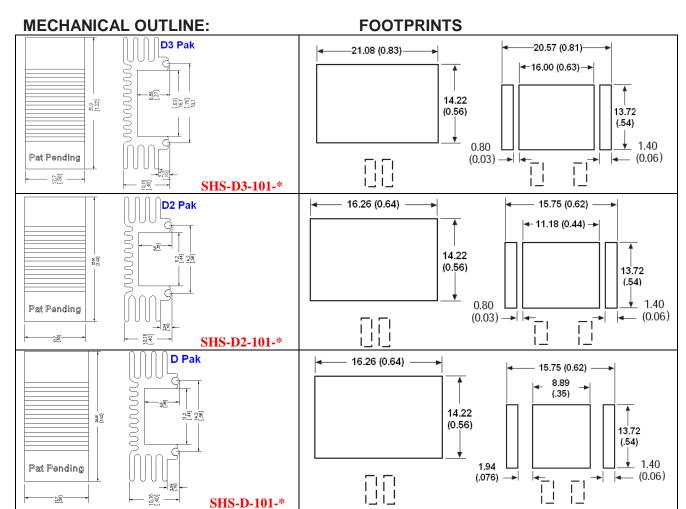
APPLICATIONS:

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

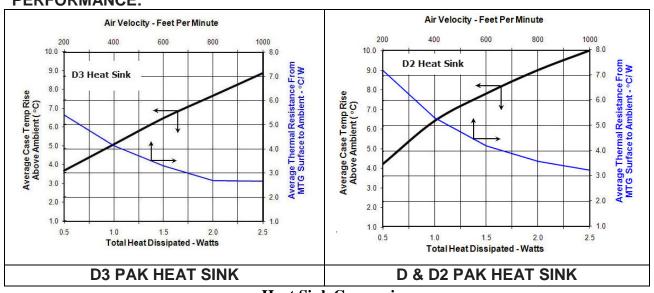








PERFORMANCE:



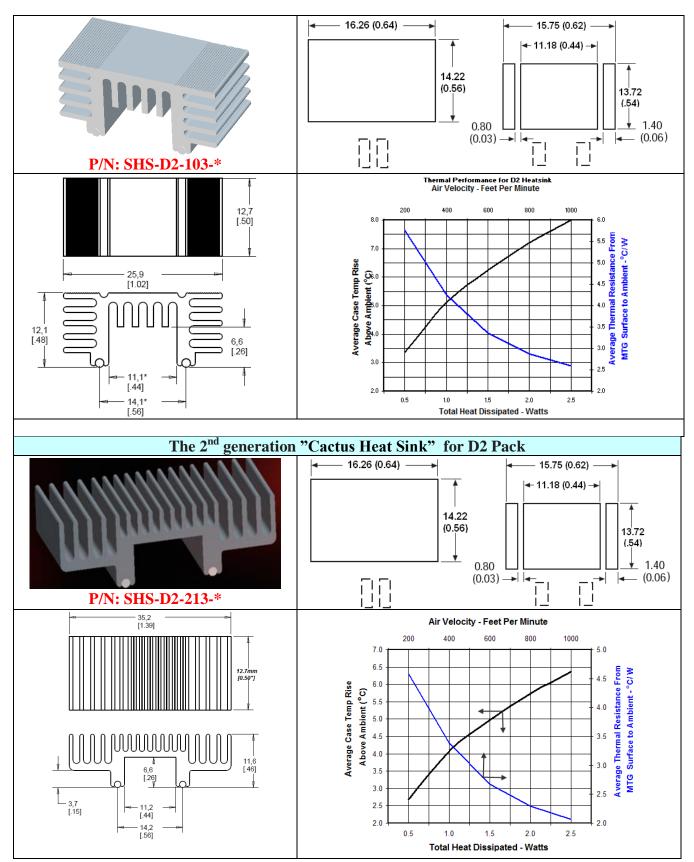




Smart Heatsinks	Comparison	Aavid, Wakefield & others	
	Vs.		
D Pak (TO-252) Heat Sink		D Pak (TO-252) Heat Sink	
Surface Areas	5 times	Surface Areas	
Thermal Performance	Up to 500%	Thermal Performance	
Radiation Improvement	Up to 130%	Radiation Improvement	
Cost/Watt	<	Cost /Watt	
Footprint	>	Footprint	
Height	=	Height	
D2 Pak (TO-263) Heat Sink	vs	D2 Pak (TO-263) Heat Sink	
Surface Areas	3 times	Surface Areas	
Thermal Performance	Up to 300%	Thermal Performance	
Cost/ Watt	< <	Cost/ Watt	
Footprint	=	Footprint	
Height	=	Height	
D3 Pak (TO-268) Heat Sink	Vs.	D3 Pak (TO-268) Heat Sink	
Surface Areas	3 times	Surface Areas	
Radiation Improvement	Up to 130%	Radiation Improvement	
Thermal Performance	Up to 350%	Thermal Performance	
Cost/ Watt	<	Cost/ Watt	
Footprint	=	Footprint	
Height	=	Height	

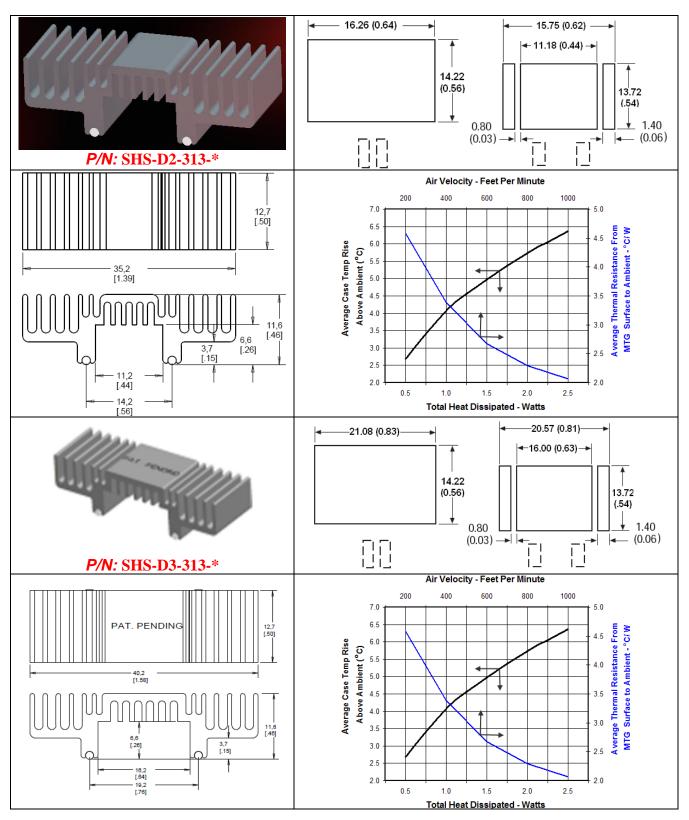
















Part Number	Descriptions	Packaging
SHS-D2-101-D	Heat sink for D or D2 PAK, degreased finish	Bulk
SHS-D2-101-B	Heat sink for D or D2 PAK, black anodized	Bulk
SHS-D2-101-D-TR	Heat sink for D or D2 PAK, degreased finish	13" reel 250/reel
SHS-D2-101-B-TR	Heat sink for D or D2 PAK, black anodized	13" reel 250/reel
SHS-D2-103-D	Heat sink for D or D2 PAK, degreased finish	Bulk
SHS-D2-103-B	Heat sink for D or D2 PAK, black anodized	Bulk
SHS-D2-103-D-TR	Heat sink for D or D2 PAK, degreased finish	13" reel 250/reel
SHS-D2-103-B-TR	Heat sink for D or D2 PAK, black anodized	13" reel 250/reel
SHS-D2-213-D	Heat sink for D or D2 PAK, degreased finish	Bulk
SHS-D2-213-B	Heat sink for D or D2 PAK, black anodized	Bulk
SHS-D2-313-D	Heat sink for D or D2 PAK, degreased finish	Bulk
SHS-D2-313-B	Heat sink for D or D2 PAK, black anodized	Bulk
SHS-D2-313-D-TR	Heat sink for D or D2 PAK, degreased finish	13" reel 250/reel
SHS-D2-313-B-TR	Heat sink for D or D2 PAK, black anodized	13" reel 250/reel
SHS-D3-101-D	Heat sink for D3 PAK, degreased finish	Bulk
SHS-D3-101-B	Heat sink for D3 PAK, black anodized	Bulk
SHS-D3-101-D-TR	Heat sink for D3 PAK, degreased finish	13" reel 250/reel
SHS-D3-101-B-TR	Heat sink for D3 PAK, black anodized	13" reel 250/reel
	,	
SHS-D3-313-D	Heat sink for D3 PAK, degreased finish	Bulk
SHS-D3-313-B	Heat sink for D3 PAK, black anodized	Bulk
SHS-D3-313-D-TR	Heat sink for D3 PAK, degreased finish	13" reel 250/reel
SHS-D3-313-B-TR	Heat sink for D3 PAK, black anodized	13" reel 250/reel

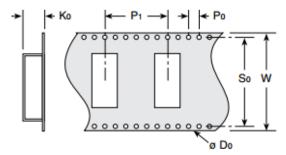
NOTE: Some of the surface mount heat sinks are 100% exchangeable with those on market.



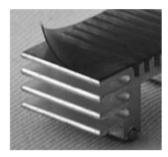
TAPE & REEL PACKAGING INFO

Reel diameter: 13.00" (330.00mm)

250 pcs. per



D ₀	1.55mm	1.5mm	1.5mm
K ₀	10.5mm	12.20mm	11.80mm
Po	4mm	4.0mm	4.0mm
P ₁	20mm	20mm	20.0mm
So	40.4mm	40.4mm	52.4mm
Wo	44mm	44mm	56mm



Removable Kapton tape on each part facilitates handling by automatic pick and place equipment.

Only for heat sinks with no flat head