







BOARD LEVEL POWER SEMICONDUCTOR HEAT SINKS



286 SERIES

ALUMINUM AND COPPER LOW-COST WAVE-SOLDERABLE HEAT SINKS

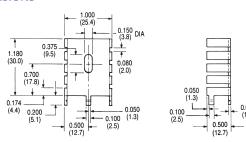
TO-220

Efficient heat removal at low cost can be achieved by inserting the **286 Series** directly into pre-drilled circuit boards; scored mounting tabs may be bent after insertion to provide added stability. The **286 Series** can be wave-soldered directly to the board. See also 286DB Series on page 55.

Height Abov				Thermal Perfor		
Standard P/N	PC Board in. (mm)	Maximum Footprint in. (mm)	Material	Natural Convection	Forced Convection	Weight lbs. (grams)
286-AB 286-CBTE 286-CTE	1.190 (30.2) 1.190 (30.2) 1.190 (30.2)	1.000 (25.4) × 0.500 (12.7) 1.000 (25.4) × 0.500 (12.7) 1.000 (25.4) × 0.500 (12.7)		58°C @ 4W 58°C @ 4W 58°C @ 4W	7.4°CW @ 200 LFM 7.4°CW @ 200 LFM 7.4°CW @ 200 LFM	0.0085 (3.86) 0.0250 (11.34) 0.0250 (11.34)

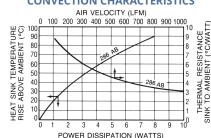
Material: 286-AB style (aluminum, black anodized), 286-CBT style (copper, black paint tin tabs), and 286-CT style (copper, tinned).

MECHANICAL DIMENSIONS



Dimensions: in. (mm)

NATURAL AND FORCED CONVECTION CHARACTERISTICS



TO-220

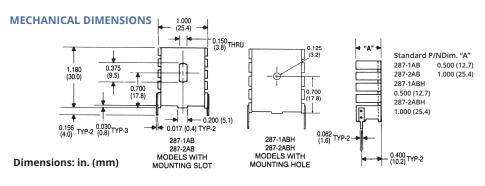
WAVE-SOLDERABLE LOW-COST HEAT SINKS

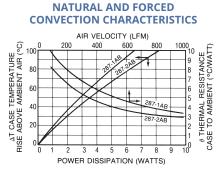
287 SERIES



Mount these cost-effective TO-220 heat sinks vertically into pre-drilled printed circuit boards. Soldered, pre-tinned tabs can be wavesoldered directly to the board. A 0.375 in. (9.5 mm) mounting slot allows for correct positioning of TO-220 and similar semiconductor packages.

Standard P/N		Height Above PC Board	ight/hove maximam		Thermal Performance at Typical Load Natural Forced	
Mounting Slot	Mounting Hole		in. (mm)	Convection	Convection	Weight lbs. (grams)
287-1ABE 287-2ABE	287-1ABH 287-2ABH	1.180 (30.0) 1.180 (30.0)	1.000 (25.4) × 0.500 (12.7) 1.000 (25.4) × 1.000 (25.4)	65°C @ 4W 55°C @ 4W	7.8°CW @ 200 LFM 6.4°CW @ 200 LFM	0.0090 (4.08) 0.0140 (6.35)
Material: Aluminum, Black Anodized						





285 SC AND 330 SC SPEEDCLIPS™

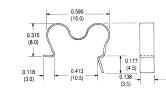
285 & 330 SERIES

dese heat sink series. Use a assembly time and cost.

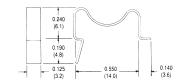
SpeedClips™ employ a locking safety tab for mounting. Must be ordered separately for these heat sink series. Use these SpeedClips™ with our 237, 240, and 252 Series heat sinks for the lowest production assembly time and cost. Order one SpeedClip™ for each heat sink purchased. Must be purchased with heat sinks.

Standard	Nominal Installed	For Use	Material	Weight
P/N	Loading Force	With Series		lbs. (grams)
285 SC	10 lbs	232, 237, 240, 252, 667	Carbon Steel	0.00053 (0.24)
330 SC	4 lbs	232, 237, 240, 252, 667	Stainless Steel	0.00074 (0.34)

MECHANICAL DIMENSIONS



Clip 330 SC 4 lb (17.8N) Nominal Force Installed



Clip 285 SC 10 lb (44.5N) Nominal Force Installed

Dimensions: in. (mm)



695 SERIES

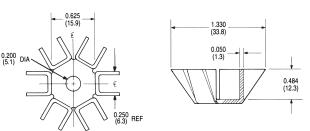
SPACE-SAVING HEAT SINKS FOR SMALL STUD-MOUNTED DIODES

Stud-Mount

Mount and effectively heat sink small stud-mounted diodes with the **695 Series** space-saving heat sink type. Each unit is black anodized aluminum with an 0.200 in. (5.1) dia. mounting hole centered in the base. The folded fin design provides good heat dissipation for use where height is limited above the printed circuit board or base plate.

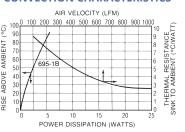
	Maximum		Thermal Performa		
Standard P/N	Width in. (mm)	Height in. (mm)	Natural Convection	Forced Convection	Weight lbs. (grams)
695-1B	1.330 (33.8)	0.530 (13.7)	72°C @ 4.0W	5.2°C/W @ 400 LFM	0.008 (4.0)

MECHANICAL DIMENSIONS



Dimensions: in. (mm)

NATURAL AND FORCED CONVECTION CHARACTERISTICS



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