





BOARD LEVEL POWER SEMICONDUCTOR HEAT SINKS



260 SERIES

CUP CLIPS FOR TO-5 CASE STYLE SEMICONDUCTORS

TO-5

Characteristics	TO-5
Thermal Resistance – Epoxy Insulated	14° C/W
Breakdown Voltage – Epoxy Type (VAC), 60 Hz	500
Recommended Operating Voltage, AC or DC	
Clean Conditions: % Hipot Rating Dusty Conditions: % Hipot Rating Dirty Conditions: % Hipot Rating	50 30 10 to 20
Temperature Range — Continuous (C°)	-73/+149

Model	Depth of Tapped Base
260-4T5E	0.093 (2.36)
260-4TH5E	0.125 (3.18)

Thread		
Size:	4 = #4-40 UNC	Base Style: H = hex
	6 = #6-32 UNC	Semiconductor
Mounting	T = tapped	Case Style: $5 = TO-5$
Style:	S = stud	Insulation E = epoxy
	P = plain	

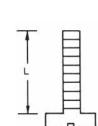
TO-5 CASE STYLE CUP CLIPS — ORDERING GUIDE				
Standard P/N	Outline Dimension Insulation Type	L x W x I.D. in. (mm)	Weight lbs. (grams)	Case Style
260-4T5E 260-4TH5E 260-6SH5E	Epoxy Insulated Epoxy Insulated Epoxy Insulated	0.370 (9.4) × 0.380 (9.7) dia. × 0.290 (7.4) 0.400 (10.2) × 0.370 (9.4) hex. × 0.290 (7.4) 0.557 (14.1) × 0.370 (9.4) hex. × 0.290 (7.4)	0.0024 (1.09) 0.0031 (1.41) 0.0037 (1.68)	TO-5 TO-5 TO-5

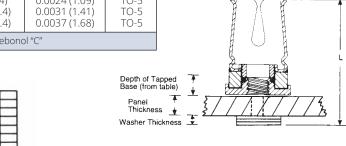
Materials and Finish: Cups – beryllium copper, black ebonol "C"; Bases – brass, black ebonol "C"

Base Mounting Configurations — TO-5

Plain Type — Epoxy bonded, or used with #4 pan head screws. Tapped Base — #4-40 UNC screw (not supplied) fits tapped hole. Care should be taken not to use too long a screw, which could short against the semiconductor case. For correct screw lengths:

Stud Mounting Base. #6-32 UNC. Nuts and washers not supplied. Stud hole must be slightly countersunk to ensure flat mounting.

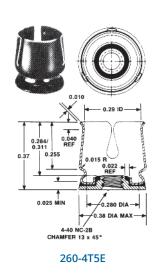


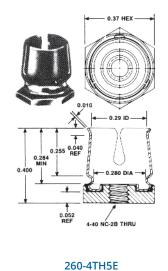


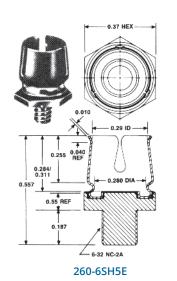
To determine the correct mounting screw lengths, add dimensions as follows:

EPOXY INSULATED FOR TO-5

260 SERIES







Diodes

THERMAL LINKS FOR FUSED GLASS DIODES

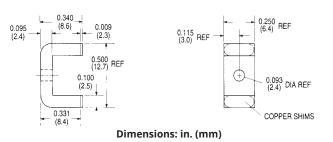
258 SERIES



The thermal resistance from diode leads to chassis or heat sink is 12°C/watt, when unit is mounted with TYPE 120 Joint Compound. If a 10°C/watt chassis or sink to ambient impedance is available, the thermal resistance from the diode leads to ambient is reduced from about 150°C/watt to 22°C/watt.

Standard P/N	Dimensions in. (mm)	Material	Finish	Weight lbs. (grams)
258	0.500 (12.7) x 0.250 (6.4) x 0.340 (8.6)	Aluminum	DeltaCoate™ 151 on all surfaces except solder pads and base	0.0018 (0.82)

MECHANICAL DIMENSIONS





634 SERIES

SLIM PROFILE UNIDIRECTIONAL FIN VERTICAL MOUNT HEAT SINK

TO-220 and TO-218

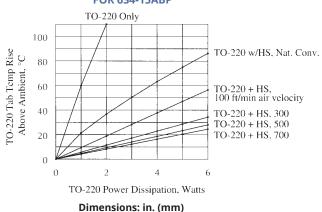
These slim profile unidirectional fin heat sinks offer users two assembly alternatives for vertically mounting TO-220 and TO-218 components. Models are available with or without wave-solderable pins on 0.40 in. (10.2) centers, making them ideal for a variety of applications where quick assembly is needed and space is at a premium.

Standard P/N		Height Above PC Board	Footprint Dimensions	Weight	
Plain Pin	Without Pin	in. (mm)	in. (mm)	lbs. (grams)	
634-10ABEP 634-15ABEP 634-20ABEP	634-10AB 634-15AB 634-20AB	1.000 (25.4) 1.500 (38.1) 2.000 (50.8)	0.640 (16.26) x 0.640 (16.26) 0.640 (16.26) x 0.640 (16.26) 0.640 (16.26) x 0.640 (16.26)	0.016 (7.48) 0.025 (11.21) 0.033 (14.95)	
Material: Aluminum, Black Anodized.					

MECHANICAL DIMENSIONS

.320 (8.13) ---6-32 THD THRU -.720 (18.29) .156 (3.96) -Ø.093 (2.36) SOLID _ SOLDERABLE PINS .400 (10.16) .640 (16.26) .136 (3.45)

TYPICAL THERMAL PERFORMANCE FOR 634-15ABP



NOTES:

- 1. Thermal compound is assumed between device and heat sink.
- 2. Tab temp with longer heat sink (634-20ABP) will typically be about 15% cooler. Tab temp with shorter heat sink (634- IOABP) will typically be about 25% higher.