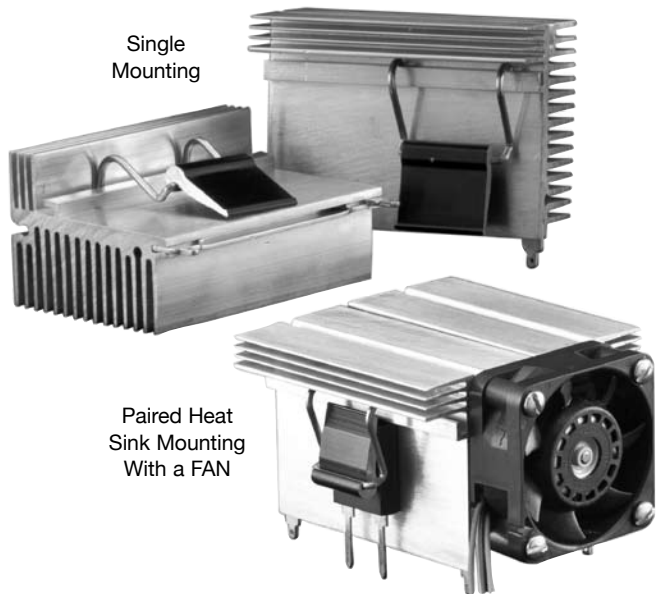# C40 Heat Sink System

For TO-247, TO-264 and SOT-227 Packages

The C40 Series Heat Sink System (Patent Pending) offers flexible, high performance and compact heat sinks with an exchangeable cam clip system for TO-247, TO-264 and SOT-227 (clip in development) devices. This powerful heat sink can be thru-hole soldered in single or paired configurations. The paired unit has mounting holes to accomodate a 40mm x 40mm fan. It is the ideal type of heat sink for high power density and small size (1U or 2U) electronic packaging with forced convection.
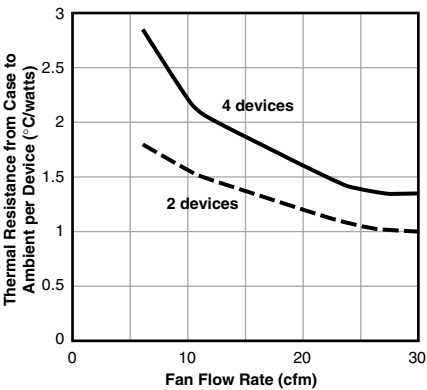
Single Mounting

Paired Heat Sink Mounting With a FAN

SERIES SPECIFICATIONS

Heatsink Part Number	Surface Area (in^2 / mm^2)	Weight (oz / g)	Length L (mm)	
C40-058-VE C40-058-AE	63.8 / 41,180	2.5/ 71	58	*consult factory for alternate lengths and clip combinations*

CHARACTERISTICS

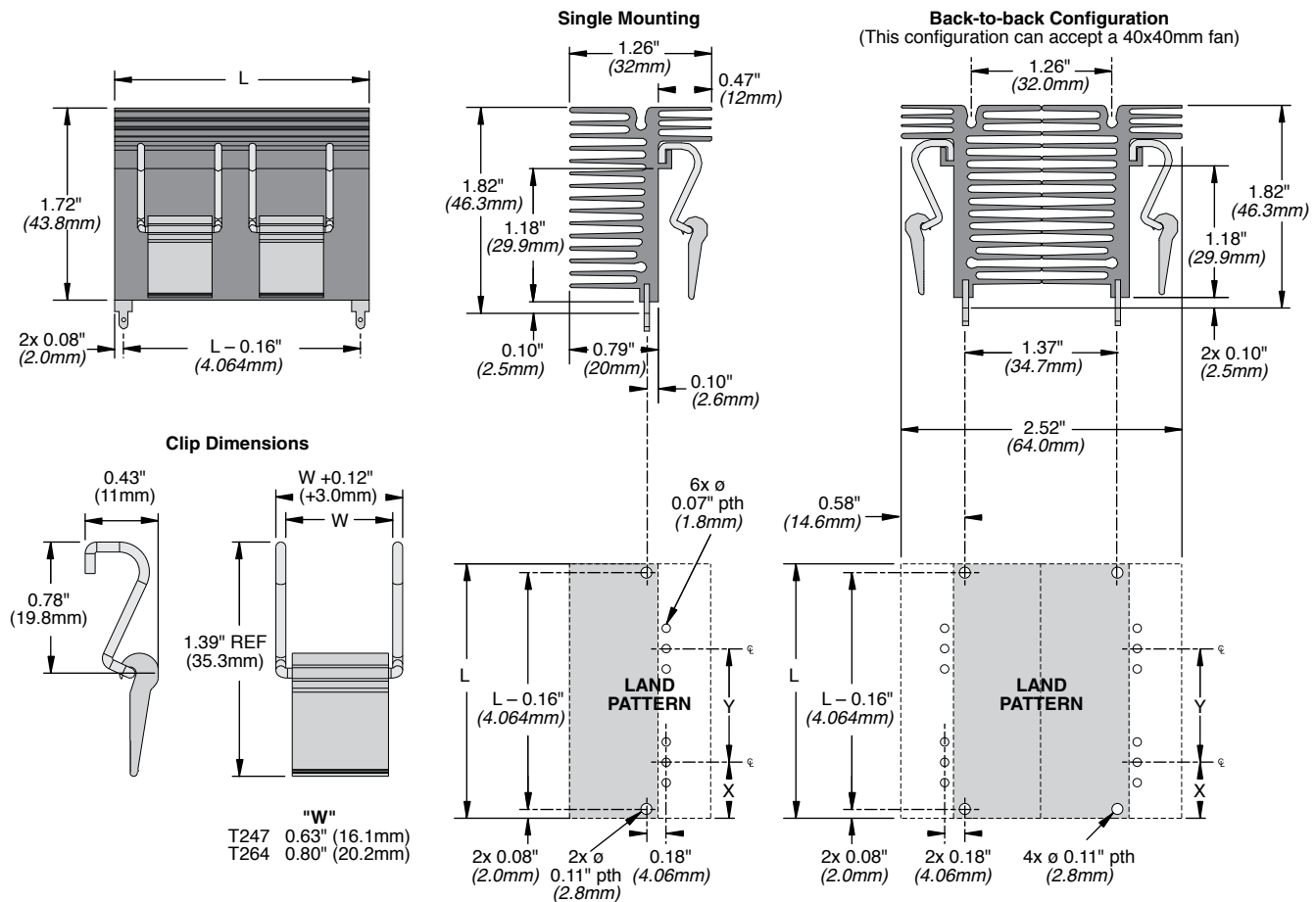|	
Heat Sink	Aluminum Alloy 6063-T5 or Equivalent with either degreased or black anodized finish.
Spring Clip	Music Wire, Per ASTM A228 with bright nickel plating
Solder Foot	Cold-rolled Steel, Per ASTM A-366 with pure tin over copper strike. RoHS compliant.
Fan	40mm fan with 4 self-tapping M3 screws
Interface Thermal Resistance	For improvement, use thermal joint compound, 0.005 Grafoil (TGon 800 by Laird), or phase change material (Hi-Flow by Bergquist) Insulator (Optional) Sil-Pad 900-S, K6 800-S and K10 by Bergquist

Heat Dissipation

Thermal Resistance from Case to Ambient per Device (°C/watts) vs Fan Flow Rate (cfm)

4 devices

2 devices

C40 Heat Sink System

For TO-247, TO-264 and SOT-227 Packages

Single Mounting

1.26" (32mm)

0.47" (12mm)

1.82" (46.3mm)

1.18" (29.9mm)

0.10" (2.5mm)

0.79" (20mm)

0.10" (2.6mm)

Back-to-back Configuration
(This configuration can accept a 40x40mm fan)

1.26" (32.0mm)

1.82" (46.3mm)

1.18" (29.9mm)

1.37" (34.7mm)

2x 0.10" (2.5mm)

2.52" (64.0mm)

0.58" (14.6mm)

L

1.72" (43.8mm)

2x 0.08" (2.0mm)

L – 0.16" (4.064mm)

Clip Dimensions

0.43" (11mm)

0.78" (19.8mm)

W +0.12" (+3.0mm)

W

1.39" REF (35.3mm)

"W"
T247 0.63" (16.1mm)
T264 0.80" (20.2mm)

6x ø 0.07" pth (1.8mm)

L

L – 0.16" (4.064mm)

LAND PATTERN

Y

X

2x 0.08" (2.0mm)

2x ø 0.11" pth (2.8mm)

0.18" (4.06mm)

L

L – 0.16" (4.064mm)

LAND PATTERN

Y

X

2x 0.08" (2.0mm)

2x 0.18" (4.06mm)

4x ø 0.11" pth (2.8mm)

NOTE: Due to possible screw torquing on long extrusions, Customer should check for coplanarity prior to final assembly or soldering.

Heatsink

C 4 0 - 0 5 8 - A E

Series | Length (mm) | Finish
A = black anodized
V = degreased
└ RoHS compliant

Clip

C L A - T 2 4 7 - 2 1 E

Clip series | Device type
T247 = TO-247
T264 = TO-264
S227 = SOT-227
(in development) | Standard configuration | RoHS compliant