

Marston heat sinks

Telephone: Wolverhampton 783361 (STD 0902)
Telegrams: Marex Wolverhampton
Telex: 337411 MARSTN G.

IMI

Wobaston Road, Fordhouses
Wolverhampton WV10 6QJ England

With the miniaturisation of electronic components and as the power density of electronic equipment steadily increases, more and more components will need some form of thermal control. Keeping operating junction temperatures safely below failure level for some power transistors and diodes requires the addition of heat sinks.

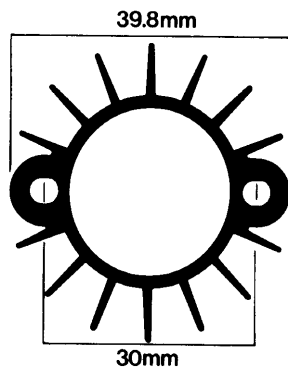
With this in mind a unique range of six heat sinks for low power applications has been designed. All are designed to take up minimum board area and are supplied black anodised to maximise the thermal radiation content of total heat transfer.

The clip-on heat sinks for the TO5 and TO220 components fit closely, ensuring good thermal contact for maximum heat dissipation. All heat sinks have been tested in accordance with the very stringent requirements of the Electronic Industries Association procedure. Thermal resistance figures are derived at a 35° C case temperature rise above ambient.

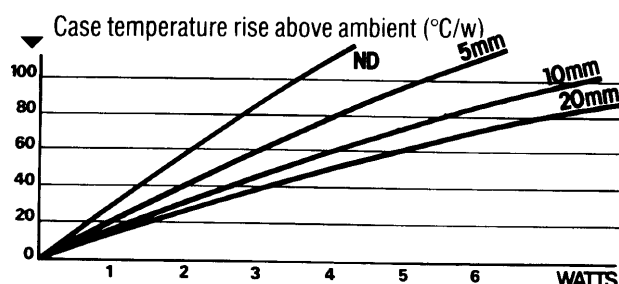
The heat sinks illustrated represent the standard range. Marston is also willing to offer special sinks to meet your specific requirements.

80 SN TO3 HEAT SINK For mechanical fixing

Available in:
8mm
16mm
Other lengths as required
Black anodised finish
Weight:
8mm = .0058 kg
16mm = .0116 kg

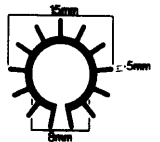


THERMAL RESISTANCE AT 8mm : 17.4°C/w
Thermal resistance data
No Dissipator : 26.3°C/w
8mm Length : 17.4°C/w
16mm Length : 13.9°C/w
20mm Length : 12.7°C/w

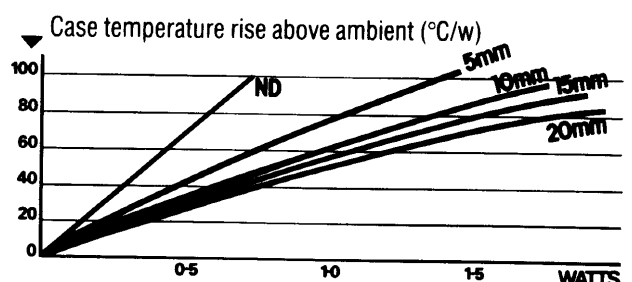


81 SN TO5 HEAT SINK Clip-on

Available in:
10mm
15mm
Other lengths as required
Black anodised finish
Weight:
10mm = .0011 kg
15mm = .0016 kg



THERMAL RESISTANCE AT 10mm : 65°C/w
Thermal resistance data
No Dissipator : 140°C/w
5mm Length : 80°C/w
10mm Length : 65°C/w
15mm Length : 56°C/w
20mm Length : 48°C/w



82 SN T0220 HEAT SINK

Clip on

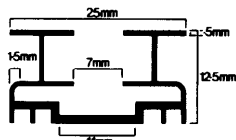
Available in:

20mm

Other lengths as required

Black anodised finish

Weight at 20mm=.0032 kg



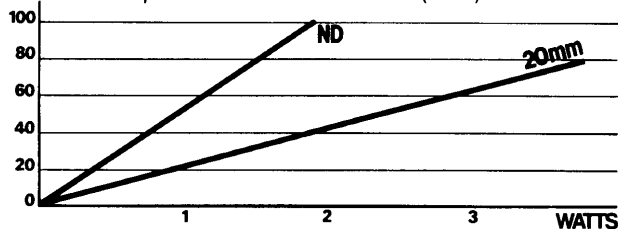
THERMAL RESISTANCE AT 20mm :21°C/w

Thermal resistance data

No Dissipator : 52°C/w

20mm : 21°C/w

▼ Case temperature rise above ambient (°C/w)



85 SN T0220 HEAT SINK

For mechanical fixing

Available in:

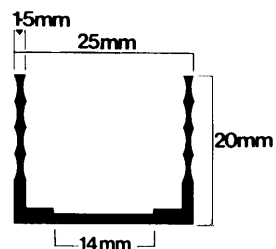
35mm

With hole pattern A or B

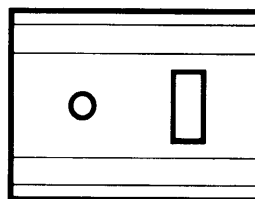
Other lengths as required

Black anodised finish

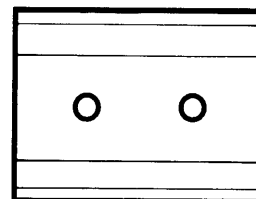
Weight at 35mm=.008 kg



Hole Pattern A



Hole Pattern B



THERMAL RESISTANCE AT 35mm

DISSIPATOR

DISSIPATOR

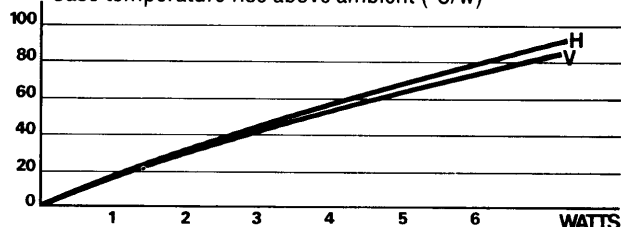
HORIZONTAL

VERTICAL

14.4°C/w

15.9°C/w

▼ Case temperature rise above ambient (°C/w)



83 SN T03/T066/T0220 HEAT SINK

For mechanical fixing

Available in:

50mm

With standard hole pattern

Black anodised finish

Weight at 50mm=.019 kg

THERMAL

RESISTANCE

AT 50mm

DISSIPATOR

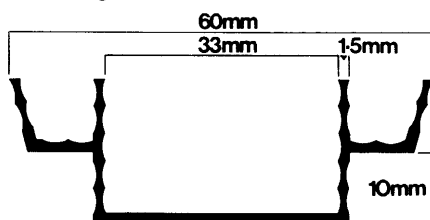
HORIZONTAL

7.7°C/w

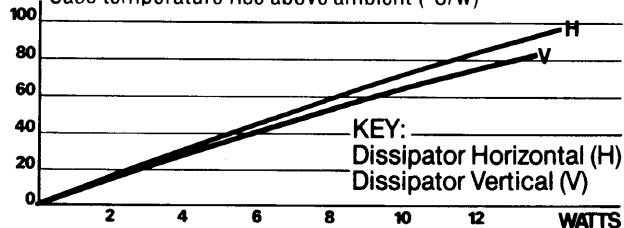
DISSIPATOR

VERTICAL

6.8°C/w

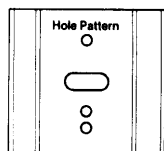


▼ Case temperature rise above ambient (°C/w)



KEY:
Dissipator Horizontal (H)
Dissipator Vertical (V)

Standard
hole pattern:



84 SN T03/T066/T0220 HEAT SINK

For mechanical fixing

Available in:

50mm

With standard hole pattern

Other lengths as required.

Black anodised finish

Weight at 50mm

= .02 kg

THERMAL

RESISTANCE

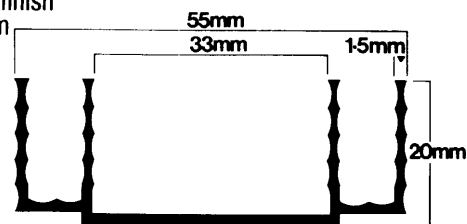
AT 50mm

DISSIPATOR

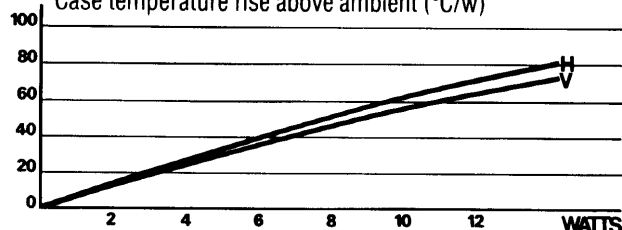
HORIZONTAL

6.9°C/w

DISSIPATOR VERTICAL 5.9°C/w



▼ Case temperature rise above ambient (°C/w)



Standard
hole pattern:

