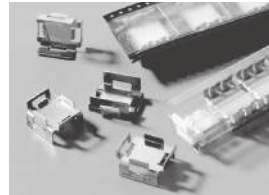


BOARD LEVEL POWER SEMICONDUCTOR HEAT SINKS



217 SERIES SURFACE MOUNT HEAT SINKS

D2PAK; TO-220; SOT-223; SOL-20

Compatible with surface mount technology (SMT) automated production techniques for ease of assembly and a variety of soldering methods, these heat sinks allow greater packaging densities and reduction in PC-board area, increasing the power dissipation of surface mount devices (SMDs) while maintaining and improving manufacturers' component thermal specifications.

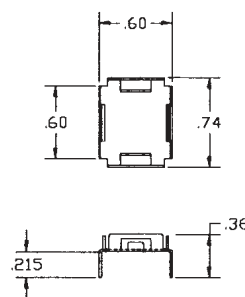
FEATURES AND BENEFITS

- No interface material is needed
- Copper with matte tin plating for improved solderability and assembly
- Both the component and the heat sink are installed on the PC-board utilizing standard SMT assembly equipment for "Tape & Reel" and "Tube" formats
- EIA standards and ESD protection are specified
- Can be used with water soluble or no clean SMT solder creams or other pastes

| Footprint Standard P/N | Height Above PC Board in. (mm) | Dimensions in. (mm) | Package Format | Package Quantity | Thermal Performance at Typical Load | |
|------------------------|--------------------------------|---------------------------|----------------|------------------|-------------------------------------|--------------------|
| | | | | | Natural Convection | Forced Convection |
| 217-36CTE6 | .360 (9.1) | .600 (15.2) x .740 (18.8) | Bulk | 1 | 55°C @ 1W | 16.0°C/W @ 200 LFM |
| 217-36CTTE6 | .360 (9.1) | .600 (15.2) x .740 (18.8) | Tube | 20 | 55°C @ 1W | 16.0°C/W @ 200 LFM |
| 217-36CTRE6 | .360 (9.1) | .600 (15.2) x .740 (18.8) | Tape & Reel | 250 | 55°C @ 1W | 16.0°C/W @ 200 LFM |

Material: Copper, Matte Tin Plated

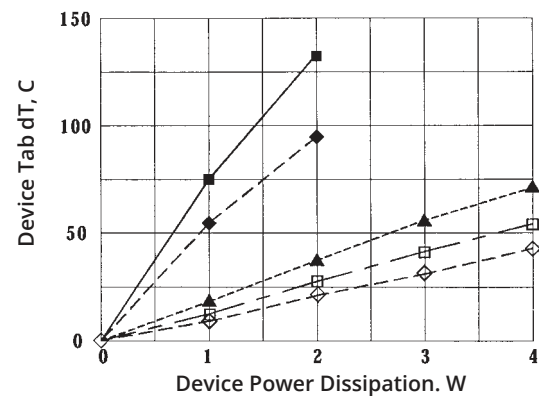
MECHANICAL DIMENSIONS



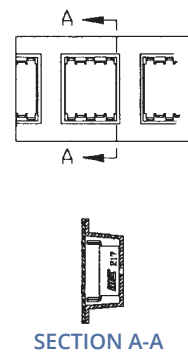
217-36CT6

Dimensions: in.

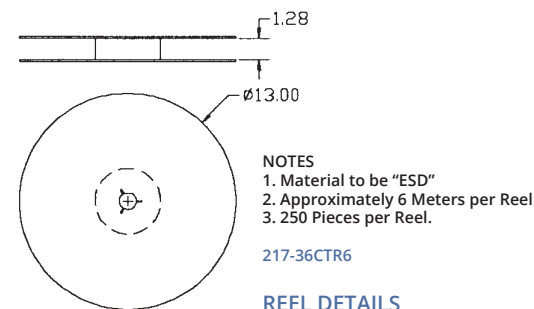
THERMAL PERFORMANCE 6 LAYER BOARD, D' PAK 125°C LEAD, 40°C AMBIENT



KEY: ■ Device only, NC ◆ Device + HS, NC ▲ Device + HS, 100 lfm
□ Device + HS, 200 lfm ◇ Device + HS, 300 lfm



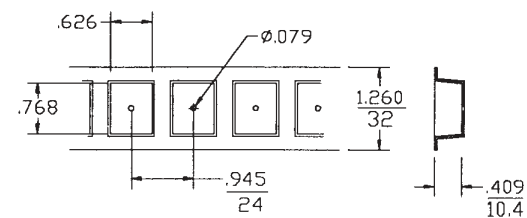
SECTION A-A



NOTES
1. Material to be "ESD"
2. Approximately 6 Meters per Reel
3. 250 Pieces per Reel.

217-36CTR6

REEL DETAILS



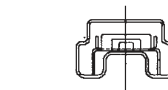
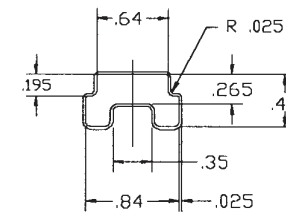
TAPE DETAILS

SURFACE MOUNT HEAT SINKS

217 SERIES

MECHANICAL DIMENSIONS

TUBE DETAILS

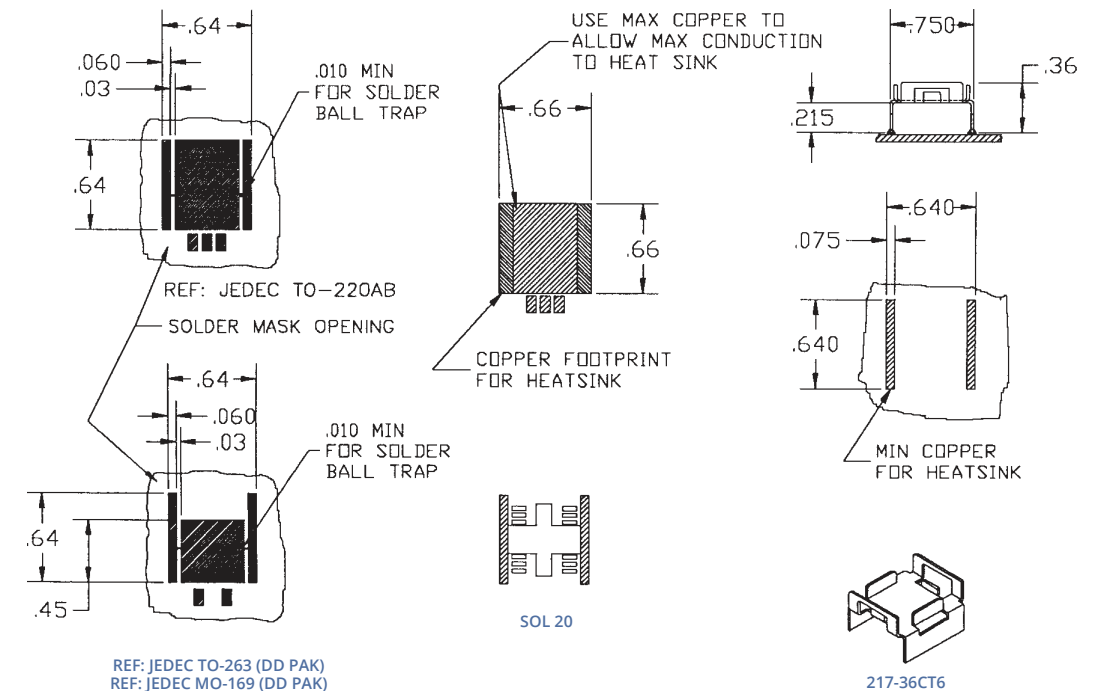


Tube: 16.25 Inches Long,
Min. esd Material with
Nail Stops
20 Pieces per Tube

217-36CTT6

Dimensions: in.

BOARD LAYOUT RECOMMENDATIONS



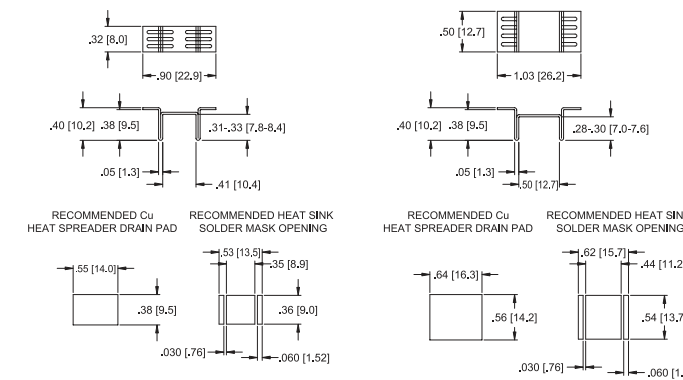
218 SERIES SURFACE MOUNT HEAT SINK

SMT Devices

| Standard P/N | Height Above PC Board in. (mm) | Maximum Footprint in. (mm) | Thermal Performance at Typical Load | |
|--------------|--------------------------------|----------------------------|-------------------------------------|-------------------|
| | | | Natural Convection | Forced Convection |
| 218-40CTE3 | .40 (10.2) | .90 (22.9) x .315 (8.0) | 62°C rise @ 2W | 21°C/W @ 200LFM |
| 218-40CTE5 | .40 (10.2) | 1.03 (26.2) x .50 (12.7) | 62°C rise @ 2W | 21°C/W @ 200LFM |

Material: Copper, Matte Tin Plated

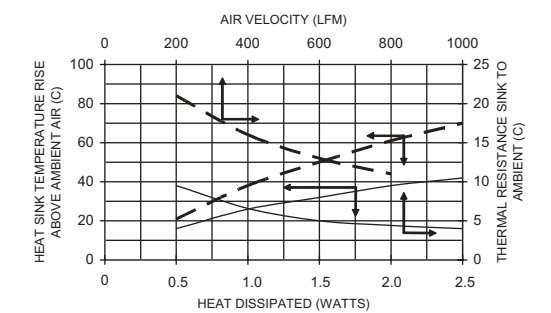
MECHANICAL DIMENSIONS



218-40CT3

218-40CT5

NATURAL AND FORCED CONVECTION CHARACTERISTICS



Solid line = 218-40CT5 Dashed Line = 218-40CT3