

# HALA CLIP TO 247-1

The single screwing clip HALA Clip TO 247-1 allows for a strong springy fixing of a semiconductor in a TO247 or comparable package and exerts a reliable pressure onto heatsinks. It can be easily fastened by use of M4-screws. Due to its particular shape an optimum mechanic stress behaviour within a wide operating range is achieved thus avoiding any overstrains of the material at the load limits. Even in case of maximum TO 247 tolerances the forces still suffice to generate adequate pressures. Through the special clip geometry the forces operate concentrated on the semiconductor package plates thus maximizing the contact zone and minimizing the thermal resistance. Due to the special surface treatment the clip is protected against corrosion.



Release 11 / 2021

### PROPERTIES

- Fixing by M4-screw
- FE-simulation optimised stress behaviour
- Mounting friendly design
- Sufficient pressure even at minimum package height (ca. 4.7 mm for TO 247)
- Anticorrosive by Delta Seal surface treatment
- Easy chip identification by apertures

### OPERATING RANGE

- Force range: ca. 95 – 110 N
- Pressure range: ca. 28 – 32 N/cm<sup>2</sup> (40 – 47 PSI) for different types of TO247 packages (Surface area TO247 ca. 3.4 cm<sup>2</sup>)

### APPLICATION EXAMPLES

Fixing of semiconductors in TO247 or comparable packages onto heatsinks:

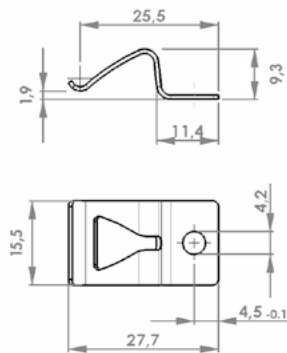
- MOSFETs
- IGBTs
- Diodes

For use in switch mode power supplies / UPS units / Motor control units / Automotive applications

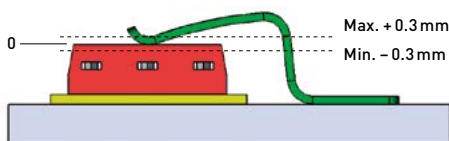
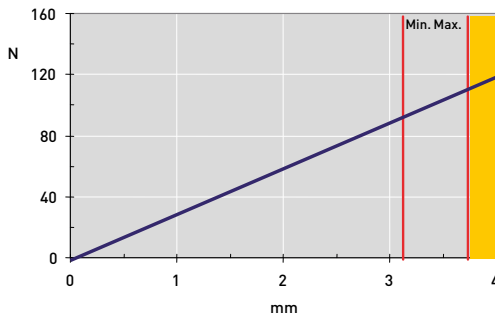
Technical Data Sheet



### Dimensions



### Force vs. Deflection



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