

VISHAY SEMICONDUCTORS

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Diodes and Rectifiers

Application Note

Pre-Mounting Process

This application note provides recommendations for how to insert the leads of axial and through-hole devices from Vishay Semiconductors into the PCB. Below we offer tips on lead bending and lead cutting, which are typically part of the pre-mounting process.

LEAD BENDING

a) Axial Devices

- When bending the leads, they must be clamped between the device body and the bending point (Fig. 1).
- Leads should be bent at a minimum distance of 2.5 mm from the diode body (Fig. 2).
- · Leads should never be bent more than once at the same point.



b) Through-Hole Devices

Bending guidelines for through-hole devices depend on whether the package leads are of uniform width or wider near the package body.

- For packages with leads of uniform width, the minimum distance between the package body and the bend point should be 2.5 mm (Fig. 3).
- For packages with leads that widen near the body, the bending distance should be no less than length L marked in Fig. 4.
- When bending the leads, they must be clamped between the device body and the bending point (Fig. 5).



LEAD CUTTING

The leads of both axial and through-hole devices can be cut before mounting or after mounting or soldering.

Z When cutting after soldering, the mechanical force may damage the solder joint but usually does not harm the component body Z O When cutting before soldering, the leads should be clamped as shown above and the above directions for lead bending should be followed.

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