

STANDARD PROCEDURES AND PRACTICES

Number: SPP-006

Subject: Definition of DAMBAR Protrusion and Intrusion

Effective Date: 20 June 1991

BACKGROUND

In the past DAMBAR protrusions and intrusions have been inconsistently defined in JEDEC package outlines. The Design Handbook Committee has established and reviewed the following definitions, which will be incorporated into the appropriate sections of the *Design Requirements Handbook, JESD 95-1*.

PRACTICE

The following definitions shall apply:

DAMBAR Protrusions:

- A protrusion is the presence of excess metal extending outward from the edge of a lead shoulder.
- The width of the protrusion is the perpendicular distance from the defined lead edge to the outermost portion of the excess metal. The length of the protrusion is the largest dimension of the excess metal parallel to the defined lead edge.

DAMBAR Intrusions:

- An intrusion is the absence of metal causing a discontinuity along the intended profile of a lead shoulder.
- The depth of the intrusion is the perpendicular distance from the defined lead shoulder edge to the innermost edge of the region of absent metal.
- The length of the intrusion is the largest dimension of the region of absent metal parallel to the defined lead edge.

APPLICATION INFORMATION

All new outline drawings referencing dambar intrusions or protrusions will use these definitions; existing drawings will not be affected unless revisions are made or new variations are added. New variations of an existing outline configuration will use the above definitions and may, when approved for publication, be assigned a separate outline number designation in the event of conflict with the existing outline.

