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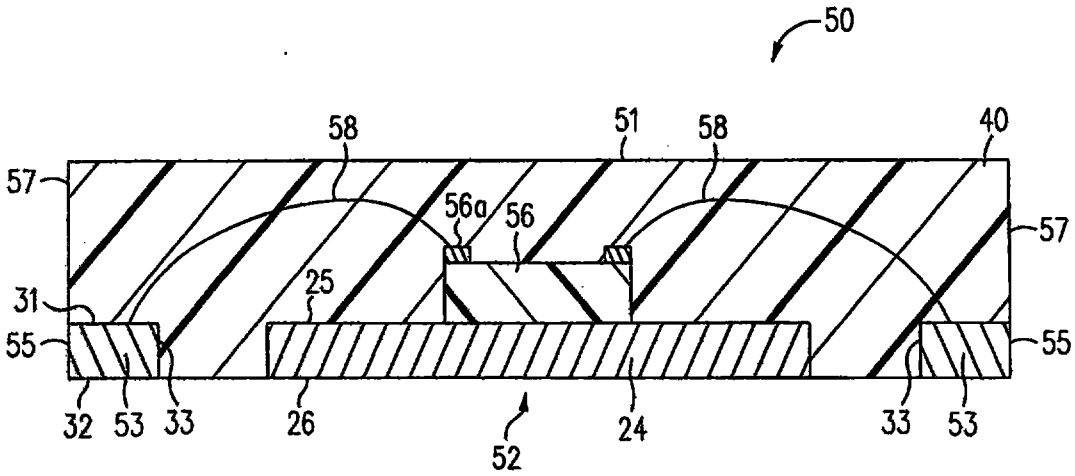
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(54) Title: PLASTIC INTEGRATED CIRCUIT PACKAGE AND METHOD AND LEADFRAME FOR MAKING THE PACKAGE




(57) Abstract

Packages for an integrated circuit die and methods and leadframes for making such packages are disclosed. The package includes a die, a die pad, peripheral metal contacts, bond wires, and an encapsulant. The die pad and contacts are located at a lower surface of the package. The die pad and the contacts have side surfaces which include reentrant portions and asperities to engage the encapsulant. A method of making a package includes providing a metal leadframe having a die pad in a rectangular frame. Tabs extend from the frame toward the die pad. The die pad and tabs have side surfaces with reentrant portions and asperities. A die is attached to the die pad. The die is electrically connected to the tabs. An encapsulant is applied to the upper and side surfaces of the leadframe. Finally, the leadframe is cut in situ so that the die pad and tabs are severed from the frame, the sides of the package are formed, and the package is severed from the leadframe.

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