

ELECTRICALLY CONDUCTIVE SILICONE ELASTOMER
COMPOSITIONS, AND USE FOR MANUFACTURING SEMICONDUCTOR
DEVICES

ABSTRACT

There is disclosed herein a hydrosilylation curable electrically conductive silicone elastomer composition containing an acrylic functional group-containing organopolysiloxane, such that when the composition is used to adhere a semiconductor chip to a substrate and the composition is then irradiated with a high energy beam, the exposed periphery of said composition cures to an extent that migration of low molecular-weight silicone species from said composition, both before and during the hydrosilylation reaction, is minimized.

A method for manufacturing a semiconductor device having improved reliability is also disclosed in which, during adhesion of a semiconductor chip to the substrate, package, etc., by means of this composition, decreases in wire bondability to the semiconductor chip or lead frame and adhesion defects between the semiconductor chip, substrate, package, or lead frame and the sealing resin are inhibited.

A semiconductor device manufactured by this method has improved reliability.

This Sheet Has Been Replaced

