

ABSTRACT

SEMICONDUCTOR STRUCTURE AND FORMING METHOD THEREOF, AND METHOD FOR FUSING LASER FUSE

The present invention provides a semiconductor structure and a forming method thereof, and a method for fusing a laser fuse. The semiconductor structure comprises: a semiconductor substrate; interlayer dielectric layers located above the semiconductor substrate and at least two metal interconnection layers located in the interlayer dielectric layers; a laser fuse located in any metal interconnection layer above the bottom metal interconnection layer and metal islands located in the metal interconnection layers below the laser fuse, the metal islands in different metal interconnection layers being connected through conductive contact holes to form two conductive paths, the laser fuse connecting the two conductive paths in series through the conductive contact holes; and, an alignment mark located in the same metal interconnection layer as the laser fuse, the alignment mark being used as a mark for laser alignment during fusing the laser fuse. Since the alignment mark is located in the same metal interconnection layer as the laser fuse, the laser alignment effect can be improved.

Figure 2c