

LASER DIODE SURFACE MOUNTING STRUCTURE

ABSTRACT

A laser diode surface mounting structure, having at least one edge-emitting laser diode chip, including two electrodes; a heat-dissipating plate for carrying one of the two electrodes of the at least one edge-emitting laser diode chip, which has a top conductive layer, a bottom conductive layer, and at least one conductive through hole extending from the top conductive layer to the bottom conductive layer for electrically conducting; two or more metal plates spaced apart from each other and located on a plane, wherein a first metal plate is located under the heat-dissipating plate and in contact with the bottom conductive layer of the heat-dissipating plate, and a second metal plate is located adjacent to and separated from the first metal plate; and an insulating frame having an opening and being disposed above the two or more metal plates for holding the two or more metal plates.

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The most illustrative figure: Figure 2