

TITLE OF INVENTION: OPTICAL MODULE

ABSTRACT

An optical module (10), comprising a PCB (11), a light-emitting module (12) and a first light-shaping module (13), wherein the light-emitting module (12) comprises at least two base blocks (121) and at least one chip (122); each base block (121) is directly fixed to the PCB (11); the chip (122) and the base blocks (121) are spaced apart from each other; two sides of each chip (122) are clamped by the base blocks (121); the light-emergent direction of the light-emitting module (12) is not parallel to a plane where the PCB (11) is located; there is at least one light-emitting module (12); and the first light-shaping module (13) is fixed on the light-emergent side of the light-emitting module (12) and is used for performing shaping processing on a light ray emerging from the light-emitting module (12). By means of providing the light-shaping module (13) and the light-emitting module (12) on the same substrate, the impact of the PCB (11) on the light-shaping module (13) is reduced and the light-emergent direction of the light-emitting module (12) is not parallel to the plane where the PCB (11) is located, thereby reducing optical index changes caused by relative displacement between the light-emitting module (12) and the light-shaping module (13) at high and low temperatures.

FIG. 1