ABSTRACT OF THE DISCLOSURE

The surface mounted LED package disclosed herein includes an LED having a first surface, a second surface opposite to the first surface, two electrical contacts on the first surface, and a light emitting portion in the second surface; a housing mounted on the LED and having a generally rectangular parallelepipedal shape, a first passageway extending from a first surface of the housing part way through the housing, the first passageway being sized, shaped, and positioned to receive the second surface of the LED such that the light emitting portion of the second surface faces into the first passageway, and a second passageway extending from a second surface of the housing to a third surface of the housing and communicating with the first passageway; and a lens received in the second passageway and having a first radiating surface located outside the housing and an internal reflecting surface located inside the housing above the light emitting portion of the LED in position to reflect light from the light emitting portion of the LED toward the radiating surface.

Figure 1

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