

Title (en)
SEMICONDUCTOR LAMP

Title (de)
HALBLEITERLAMPE

Title (fr)
LAMPE A SEMI-CONDUCTEURS

Publication
EP 1837844 A1 20070926 (EN)

Application
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Abstract (en)
This invention relates to a semiconductor luminescent module and a semiconductor lamp formed there of, comprising: a luminescent array comprising a plurality of semiconductor luminescent elements; a power supply circuit for providing pulsed power supply voltage to each of the semiconductor luminescent elements in said luminescent array, so as to make the luminance of said semiconductor luminescent elements substantially same as that of the semiconductor luminescent elements by constant DC currents. For GaAs LEDs, the duty ratio of said pulse under a frequency of $f=5\text{KC}$ is 50% - 90%, preferably 70% - 80%, and more preferably 75%. Said shift-multiplexer is an integrated circuit. The semiconductor lamp in this invention has the effect of energy saving, and at the same time ensuring even luminance. It also makes the power supply circuits have good performance, simple design, easy to be integrated, convenient for adjustment, such that the fabrication cost is lowered and can be practically and widely used.

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