

SEMICONDUCTOR RESISTOR STRUCTURE AND SEMICONDUCTOR PHOTOMULTIPLIER DEVICE

ABSTRACT

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According to embodiments of the present invention, a semiconductor resistor structure is provided. The semiconductor resistor structure includes a substrate, a first region of a first conductivity type in the substrate, a second region of the first conductivity type in the substrate, the first region and the second region arranged one over the other, and an
10 intermediate region of a second conductivity type in between the first region and the second region, wherein at least one gap is defined through the intermediate region and overlapping with the first region and the second region. According to further embodiments of the present invention, a semiconductor photomultiplier device is also provided.

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Figure 5