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Leds

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Basic principles of LED (Light Emitting Diodes)

• An LED consists of several layers of semiconducting material

• When an LED is operated with DC voltage light is generated in the active layer

• The generated light is radiated directly or by reflections

• In contrast to lamps, which emit a continuous spectrum, an LED emits light in a certain color

• The color of the light depends on the used material

• Two systems of material (AlInGaP and InGaN) are used in order to produce LED with a high luminance in all colors from blue to red and also in white (luminescence conversion). Therefore different voltages are necessary in order to operate the diode in conducting direction