OVERVIEW UV LEDs (Rev 11)

Nikkiso, Japan, manufactures high performance AlGaN based LEDs in the UV-B and UV-C wavelength range.

Features:
- 265 nm, 280 nm, 285 nm, 300 nm and 310 nm
- SMD package with integrated Zener diode for ESD protection
- High power up to 45 mW (guaranteed output power)
- Long life time secured by burn-in procedure

Applications:
- Photo catalysis; decomposition of chemicals for example in air cleaners
- Photo and immunotherapy
- UV printer: curing of epoxy or glue; lithographic exposure
- Passport and document security
- Sterilization, disinfection, water purification; inactivation of bacteria and viruses
- Biotechnology, medical engineering
- Sensor technology for example gas sensing

General Technical Data

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<tbody>
<tr>
<td>VPS134</td>
<td>3.5 mm SMD with Zener diode</td>
<td>265 ± 5</td>
<td>12 mW</td>
<td>130 °</td>
</tr>
<tr>
<td>VPS161</td>
<td>3.5 mm SMD with Zener diode</td>
<td>280 ± 5</td>
<td>20 mW</td>
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<tr>
<td>VPS164</td>
<td>3.5 mm SMD with Zener diode</td>
<td>280 ± 5</td>
<td>33 mW</td>
<td>130 °</td>
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<tr>
<td>VPS171</td>
<td>3.5 mm SMD with Zener diode</td>
<td>285 ± 5</td>
<td>25 mW</td>
<td>130 °</td>
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<td>VPS174</td>
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<td>38 mW</td>
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<td>300 ± 5</td>
<td>25 mW</td>
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<td>VPS1C1</td>
<td>3.5 mm SMD with Zener diode</td>
<td>310 ± 5</td>
<td>45 mW</td>
<td>130 °</td>
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</tbody>
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Evaluation Kits for Nikkiso UV-LEDs
- Consisting of LED carrier and LED driver with heatsink, power supply and cable
- Current limitation to specified maximum
- Current reduction with potentiometers (coarse and fine)
- Temperature control on LED carrier
- Enable input
- Current monitor output