UV - Photodetector  
with integrated amplifier

JIC 167 BC  
JIC 168 BC  
JIC 169 BC

**characteristics:**
- integrated UV-BC filter
- spectral range 280 ... 305 nm
- active area 0,965 mm²
- responsivity, decadic staggering 0,7/7/70 mV/nW
- extra sensor pin for external adjustment of gain and bandwidth
- single supply voltage
- sensor assembly isolated to ground
- hermetically welded TO5-metal/glass package
- components are in conformity with RoHS and WEEE

**applications:**
- selective UV-measurement
- control of sterilization lamps
- flamedetection and flamecontrol
- control of irradiancy in varnish and adhesive hardening

**absolute maximum ratings:**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>JIC 167 BC</th>
<th>JIC 168 BC</th>
<th>JIC 169 BC</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>supply voltage</td>
<td>±5,5 V</td>
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<tr>
<td>working temperature range</td>
<td>-25 °C ... +85 °C</td>
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<tr>
<td>storage temperature range</td>
<td>-40 °C ... +100 °C</td>
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<tr>
<td>welding temperature (5s)</td>
<td>300 °C</td>
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</tbody>
</table>

**technical data:**

common test conditions, as not otherwise specified: $T_a = 25 \, ^{\circ}C$, $V_s = +5 \, V$

typ. values, maximum values in brackets
relative spectral responsivity

![Graph showing relative spectral responsivity.]

pin configuration

![Pin configuration diagram.]

package dimension

![Package dimension diagram.]

application hints:

- If an external resistor for reduction of gain is used, please make sure that length of connectors is as short as possible to reduce noise and capacitive interference.

- If internally adjusted gain is used only, please cut pin "1".