Internal Voltage Regulator

Description
The HX11RA is a voltage regulator designed to provide a voltage reference or supply for on chip circuitry. Various output voltages can be realized. Suitable for environments up to 125°C, the regulator is designed to connect and layout abut to the HX11BA bandgap product which provides a 1.21V reference voltage and 24uA bias current for a compact layout structure.

Features
- Flexible output voltage
- 25mA max load current
- 3.3V analog supply
- Extended temperature range: -40°C to 125°C
- Dimensions: 125um x 280um (0.035mm²)

Applications
- Data converter reference
- Internal analog voltage supply
- Internal digital voltage supply

Specifications

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Conditions</th>
<th>Min</th>
<th>Typ</th>
<th>Max</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Analog Supply Voltage</td>
<td>±10%</td>
<td>2.97</td>
<td>3.3</td>
<td>3.63</td>
<td>V</td>
</tr>
<tr>
<td>Temperature Range</td>
<td>-40°C</td>
<td>27</td>
<td>125</td>
<td></td>
<td>°C</td>
</tr>
<tr>
<td>Output Voltage</td>
<td>various</td>
<td>2.9</td>
<td></td>
<td></td>
<td>V</td>
</tr>
<tr>
<td>Load Current</td>
<td>25</td>
<td></td>
<td></td>
<td></td>
<td>mA</td>
</tr>
</tbody>
</table>

1 A 2.9V output voltage reduces the analog supply voltage variation to 5%

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