431 Device Nomenclature

ATL431LIA IDBZR

Part Number

Accuracy Grade

ATL/TL TLV/LMV/TLVH LM
(blank): 2% (blank): 1.5% A: 2%
A: 1% A: 1% B: 1%
B: 0.5% B: 0.5% C: 0.5%

Operating Temperature Range

C: 0°C to 70°C
I: -40°C to 85°C
Q: -40°C to 125°C

Reel

R or X: Large Reel
T or (blank): Tape/Small Reel

Packages
(Varies by GPN selected)
Refer to the Packages section below for more details.

431 Family of Devices

<table>
<thead>
<tr>
<th>Device</th>
<th>V_{REF} (typ)</th>
<th>V_{KA} (max)</th>
<th>I_{KA} (min)</th>
<th>I_{KA} (max)</th>
<th>I_{REF} (max)</th>
<th>I_{(dev)} (max)</th>
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<tbody>
<tr>
<td>ATL431/2LI</td>
<td>2.5V</td>
<td>36V</td>
<td>100µA</td>
<td>15mA</td>
<td>0.4µA</td>
<td>0.3µA</td>
</tr>
<tr>
<td>ATL431/2</td>
<td>2.5V</td>
<td>36V</td>
<td>35µA</td>
<td>100mA</td>
<td>150mA</td>
<td>50nA</td>
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<td>TL431/2LI</td>
<td>2.5V</td>
<td>36V</td>
<td>1mA</td>
<td>15mA</td>
<td>0.4µA</td>
<td>0.3µA</td>
</tr>
<tr>
<td>TL431/2</td>
<td>2.5V</td>
<td>36V</td>
<td>1mA</td>
<td>100mA</td>
<td>4µA</td>
<td>2.5µA</td>
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<tr>
<td>LM431</td>
<td>2.5V</td>
<td>36V</td>
<td>1mA</td>
<td>100mA</td>
<td>4µA</td>
<td>1.2µA</td>
</tr>
<tr>
<td>TLV431/2</td>
<td>1.24V</td>
<td>6V</td>
<td>100µA</td>
<td>15mA</td>
<td>0.5µA</td>
<td>0.5µA</td>
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<td>TLVH431/2</td>
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<td>18V</td>
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<td>70mA</td>
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431 Packages

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<th>Code</th>
<th>Package</th>
<th>TL431/2LI</th>
<th>TL431/2</th>
<th>LM431</th>
<th>TLV431/2</th>
<th>TLVH431/2</th>
<th>ATL431/2</th>
<th>ATL431/2LI</th>
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Design Resources

- Designing with the Improved TL431LI
- Designing with the ATL431LI
- Using the TL431 as a Voltage Comparator
- Setting the Shunt Voltage on a Shunt Regulator
- Understanding Stability Boundary Conditions for TL431
- Flyback Compensation Network Design for TL431
- Video: Shunt Reference Considerations for Optocoupler Feedback

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