Features:
- Wide operating range 3.0~12V, -40℃ ~125℃
- Flat Response to 23kHz
- Low Null Gauss output drift, typical +0.3m V/℃
- Wide sensible magnetic field range on different supplied voltage
  ±1,000 Gauss on 5V supplied voltage
  ±2,500 Gauss on 12V supplied voltage. Low operating current 3mA
- Two package styles TO-92S/SOT-23 available.

Functional Description:
The W135 integrates Hall sensing element, linear amplifier, sensitivity controller and emitter follower output stage. It accurately tracks extremely small change in magnetic flux density — generally too small to operate Hall effect switch.

W135 can be applied as current sensor, tooth sensor, proximity detectors and motion detectors. As sensitive monitor of magnetic flux, it can effectively measure a system's performance with negligible system loading while providing isolation from contaminated and electrically noisy environments.
## Electrical Characteristics:

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Symbol</th>
<th>Test Conditions</th>
<th>Min</th>
<th>Typ</th>
<th>Max</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supply Voltage</td>
<td>Vcc</td>
<td></td>
<td>3.0</td>
<td></td>
<td>12</td>
<td>V</td>
</tr>
<tr>
<td>Supply Current</td>
<td>Isupply</td>
<td>B=0 Gauss</td>
<td></td>
<td>3.5</td>
<td>6.0</td>
<td>mA</td>
</tr>
<tr>
<td>Quiescent Vout</td>
<td>V0G</td>
<td>B=0 G (Grade A)</td>
<td>2.45</td>
<td>2.5</td>
<td>2.55</td>
<td>V</td>
</tr>
<tr>
<td></td>
<td></td>
<td>B=0 G (Grade B)</td>
<td>2.35</td>
<td>2.5</td>
<td>2.65</td>
<td>V</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>△Vout</td>
<td>B= 0 to ± 1000 G</td>
<td>1.3</td>
<td>1.5</td>
<td>1.7</td>
<td>mV/G</td>
</tr>
<tr>
<td>Bandwidth</td>
<td>BW</td>
<td></td>
<td></td>
<td>23</td>
<td></td>
<td>kHz</td>
</tr>
<tr>
<td>Measurable Guass Range</td>
<td>MGR</td>
<td>Vdd=5V</td>
<td></td>
<td>±1000</td>
<td></td>
<td>Gauss</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Vdd=12V</td>
<td></td>
<td>±2500</td>
<td></td>
<td>Gauss</td>
</tr>
<tr>
<td>Temperature Drift</td>
<td>△Vout</td>
<td>B=0 Gauss</td>
<td></td>
<td>+0.3</td>
<td></td>
<td>mV/℃</td>
</tr>
</tbody>
</table>

All output-voltage measurements are made with a voltmeter having an input impedance of at least 100kΩ.
Winson reserves the right to make changes to improve reliability or manufacturability.

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Output Null Voltage vs. Supply Voltage

Supply Current vs. Supply Voltage

WSH135 Sensitivity vs. Supply Voltage

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