

LINEAR INTEGRATED CIRCUITS

- INDUSTRIAL -



\$ **BM 135A**
\$ **BM 335A**
\$ **BM 335**
TEMPERATURE SENSORS

The BM 335 series are precision, calibrated chips. Operating as a two terminal zener diode, the BM 335 has a breakdown voltage directly proportional to absolute temperature of the junctions. Coefficient of this proportionality is 10 mV / °K.

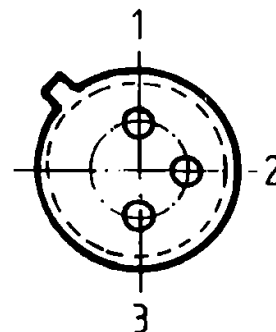
Within range of currents injected of 0.5 ... 5 mA the devices operate properly.

The BM 335 series has typically less than 1 °K nonlinearity errors over a 100 °C temperature range.

Features

- Operating temperature BM 135A ... -55 ... +125 °C
BM 335; BM 335A ... -10 ... +100 °C
- Reverse current max. 10 nA
- Forward current max. 10 mA
- Uncalibrated error (I=1mA)..... BM 135A ... max. +/- 1 °C
BM 335A ... max. +/- 3 °C
BM 335 ... max. +/- 6 °C
- Nonlinearity (I=1mA) at T min < T amb < T max :
BM 135A ... typ. +/- 0.5 °C
BM 335; BM 335A ... typ. +/- 1.5 °C

1. External adjustement
2. Anode (V+ or Vout)
3. Catode (electrically connected at the metal can)



PACKAGE TO-39 / BOTTOM VIEW

\$ Preliminary data