

PRECISION MICROPOWER SHUNT VOLTAGE REFERENCES

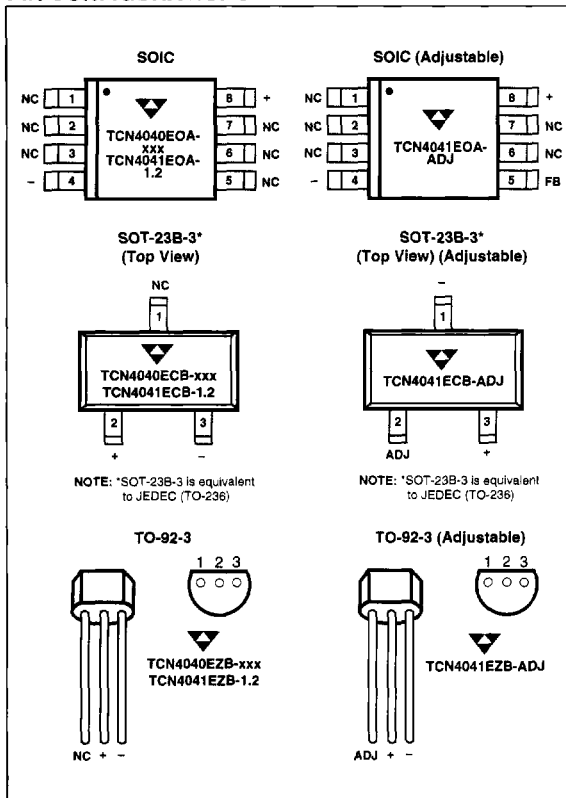
FEATURES

- **Tolerates Capacitive Loads Without External Stabilizing Capacitor**
- **Small SOT-23B-3 Package**
- **Fixed Reverse Breakdown Voltages of 2.500V, 4.096V, 5.000V, 8.192V and 10.000V**
- **Low Output Noise (10Hz to 10kHz: 35µV_{RMS} (Typ.))**
- **Wide Operating Current Range (60µA to 15mA)**

APPLICATIONS

- **Battery-Powered Equipment**
- **Data Acquisition Systems**
- **Instrumentation**
- **Consumer Products**
- **Energy Management**

PIN CONFIGURATIONS



GENERAL DESCRIPTION

The TCN4040/4041 are precision voltage references available in space-saving SOT-23 packages.

The TCN4040 is available in fixed reverse breakdown voltages of 2.500V, 4.096V, 5.000V, 8.192V, and 10.000V. Minimum operating current is as low as 60µA (TCN4040-2.5). All versions have a maximum operating current of 15mA. No external stabilizing capacitor is needed. Bandgap reference temperature drift correction and low dynamic impedance ensure reference voltage accuracy and stability over a wide range of operating temperatures and currents. The TCN4041 is available in both adjustable and fixed 1.2V versions.

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ORDERING INFORMATION

Part No.	Package	Temp. Range
TCN4040ECB xxx	SOT-23B-3*	- 40°C to +85°C
TCN4040EOA xxx	8-Pin SOIC	- 40°C to +85°C
TCN4040EZB xxx	TO-92-3	- 40°C to +85°C
TCN4041ECB xxx	SOT-23B-3*	- 40°C to +85°C
TCN4041EOA xxx	8-Pin SOIC	- 40°C to +85°C
TCN4041EZB xxx	TO-92-3	- 40°C to +85°C

NOTE: *SOT-23B-3 is equivalent to JEDEC (TO-236).

Complete the part number (xxx) in the above table by inserting the desired reverse breakdown voltage suffix code from the table below:

Part	Suffix Code	Reverse Breakdown Voltage
TCN4040	2.5	2.500V
TCN4040	4.1	4.096V
TCN4040	5.0	5.000V
TCN4040	8.2	8.192V
TCN4040	10.0	10.000V
TCN4041	1.2	1.200V
TCN4041	ADJ	Adjustable

FUNCTIONAL BLOCK DIAGRAM

