

### BG0V7-90U – Bandgap Reference Generator

#### FEATURES

- 1.0 to 3.6V supply voltage range
- Active current consumption < 15uA
- Reference voltage 0.7V
- Built in startup circuit
- Power-Down mode (IDD max. 0.2uA)
- PSRR > 40dB
- Software re-targetable (Spec. & Process)

#### APPLICATIONS

On chip voltage reference for internal voltage referencing and biasing.

**TECHNOLOGY:** 90nm Low leakage CMOS Process

#### OVERVIEW

The cell is a high precision Bandgap Reference circuit. The circuit works over a very large supply voltage range, providing excellent accuracy of 4% over the whole process and temperature range. The cell has a very low power consumption of less than 10uA. To achieve good Power Supply Rejection characteristics, a pre-regulator is included

#### FUNCTIONAL DIAGRAM

