

TDVA1P0S – Temperature Detector

FEATURES

- 1.62 to 3.6V supply voltage range
- Active current consumption < 15uA
- Disable Mode
- Mask programable threshold
- Power-Down mode (IDD max. 0.2uA)
- Over-/Under temperature alarm

APPLICATIONS

Temperature monitoring. Thermal shutdown applications. Security applications.

TECHNOLOGY: 0.18um single Poly, 5 Metal Low leakage CMOS Process

OVERVIEW

The cell is a temperature monitoring circuit. The cell has two outputs giving the possibility to monitor three separate temperature ranges. The temperature thresholds are mask programable. In a typical application, the cell can be used for overheating protection by stopping power-consuming tasks when over-temperature is detected.

FUNCTIONAL DIAGRAM

