

80ns, Low-Power, RRIO, High-Speed Comparators

FEATURES

- Low Power Consumption: 160 μ A (TYP)
- Wide Supply Voltage: 2.7V to 5.5V
- Fast Response: 80ns Propagation Delay with 100mV Overdrive
- Input Common-Mode Range Extends beyond Supply Rails 300mV
- Push-Pull Output
- Offset Voltage: 0.7mV (TYP)
- 3.5mV Internal Hysteresis
- Operating Temperature Range: -40°C to +125°C
- Packages: SOT-23-5L, SOP8, MSOP8, SOP14, TSSOP14

PRODUCT DESCRIPTION

The TS2637 family of products are low-voltage, micro-power CMOS comparators which draw less than 160 μ A per-channel of quiescent current. These devices support rail-to-rail input and output, also the input common-mode range extends beyond the supply rails.

These devices are calibrated to specified at the full temperature range of -40°C to +125°C and operated with a single or dual power supply ranged from 2.7V to 5.5V. The devices have a push-pull output stage that can drive milliampere-level current loads close to the rails.

APPLICATIONS

- RC Timers
- Portable and Battery-Powered Devices
- IR Receivers
- Threshold Detectors and Phase Discriminators
- Rotary Position Encoders
- Zero-Crossing Detectors

PIN CONFIGURATION

