ITU CO/PABX SLIC with Low Power Standby

The HC5515 is a subscriber line interface circuit which is interchangeable with Ericsson's PBL3860 for distributed central office applications. Enhancements include immunity to circuit latch-up during hot plug and absence of false signaling in the presence of longitudinal currents.

The HC5515 is fabricated in a High Voltage Dielectrically Isolated (DI) Bipolar Process that eliminates leakage currents and device latch-up problems normally associated with junction isolated ICs. The elimination of the leakage currents results in improved circuit performance for wide temperature extremes. The latch free benefit of the DI process guarantees operation under adverse transient conditions. This process feature makes the HC5515 ideally suited for use in harsh outdoor environments.

Ordering Information

PART NUMBER	TEMP. RANGE (°C)	PACKAGE	PKG. NO.
HC5515CM	0 to 70	28 Ld PLCC	N28.45
HC5515CP	0 to 70	22 Ld PDIP	E22.4
HC5515IM	-40 to 85	28 Ld PLCC	N28.45
HC5515IP	-40 to 85	22 Ld PDIP	E22.4

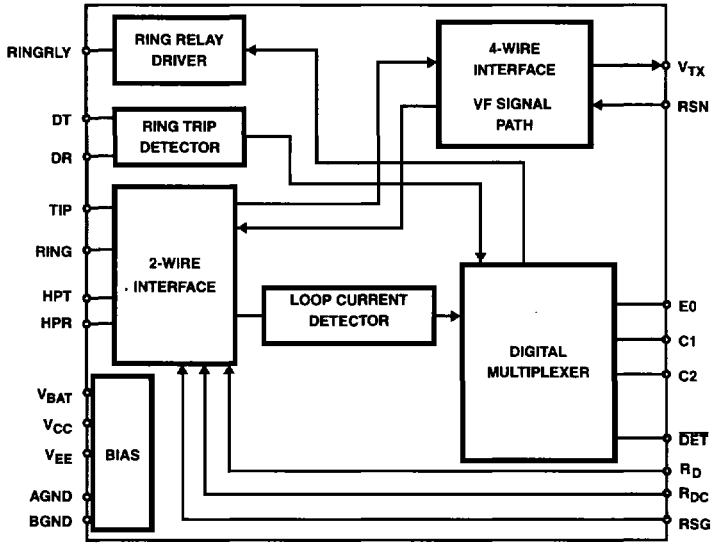
Features

- DI Monolithic High Voltage Process
- Programmable Current Feed (20mA to 60mA)
- Programmable Loop Current Detector Threshold and Battery Feed Characteristics
- Ring Trip Detection
- Compatible with Ericsson's PBL3860
- Thermal Shutdown
- On-Hook Transmission
- Wide Battery Voltage Range (-24V to -58V)
- Low Standby Power
- -40°C to 85°C Ambient Temperature Range

Applications

- Digital Loop Carrier Systems
- Fiber-In-The-Loop ONUs
- Wireless Local Loop
- Hybrid Fiber Coax
- Pair Gain
- POTS
- PABX
- Related Literature
  - AN9632, Operation of the HC5523/15 Evaluation Board

Block Diagram



CAUTION: These devices are sensitive to electrostatic discharge; follow proper IC Handling Procedures.
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