LINEAR TECHNOLOGY

SPECIFICATION NOTICE

LTC1287

November1997

The following specifications have changed on the **LTC®1287** data sheet as indicated in **bold**. All other specifications remain unchanged. For complete specifications, typical performance curves and applications information, please see the **LTC1287** data sheet.

FEATURES

- **Single Supply 3.3V Operation**
- Built-In Sample-and-Hold
- Direct 3-Wire Interface to Most MPU Serial Ports and All MPU Parallel Ports
- 30kHz Maximum Throughput Rate

CONVERTER AND MULTIPLEXER CHARACTERISTICS (Note 3)

PARAMETER	CONDITIONS		LTC1287B MIN	LTC1287B TYP	LTC1287B MAX	LTC1287C MIN	LTC1287C TYP	LTC1287C MAX	UNITS
Analog and REF Input Range	(Note 7)		**–0.05V to V_{CC} + 0.05V**						V

Note 7: Two on-chip diodes are tied to each analog input which will conduct for analog voltages one diode drop below GND or one diode drop above V_{CC}. Be careful during testing at low V_{CC} levels, as high level analog inputs can cause this input diode to conduct, especially at elevated temperature, and cause errors for inputs near full scale. This spec allows 50mV forward bias of either diode. This means that as long as the analog input does not exceed the supply voltage by more than 50mV, the output code will be correct.

For further information regarding this specification notice contact:

Linear Technology Corporation
1630 McCarthy Blvd.
Milpitas, California 95035-7417
Attn: Product Marketing Manager
Phone: (408) 432-1900