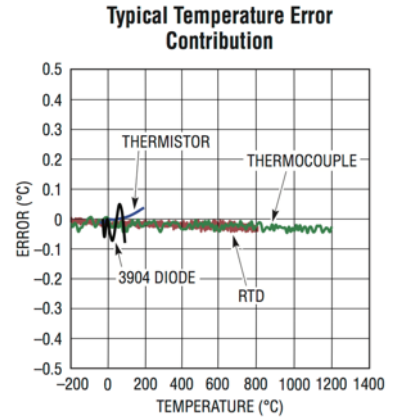


LTC2986 – Multi-Sensor High Accuracy Digital Temperature Measurement System

[Product Web Page](#)



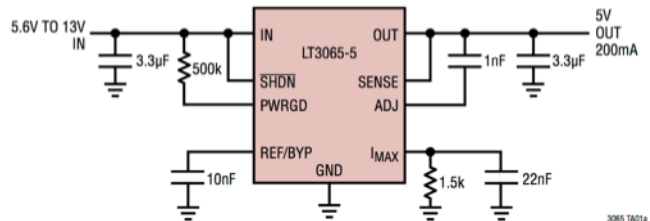
- Directly Digitizes 2-, 3-, or 4-Wire RTDs, Thermocouples, Thermistors, and Diodes
- On-Chip EEPROM Version (LTC2986-1) Stores Channel Configuration Data and Custom Coefficients
- Single 2.85V to 5.25V Supply
- 10 Flexible Inputs Allow Interchanging Sensors
- Automatic Thermocouple Cold Junction Compensation
- Built-In Standard and User-Programmable Coefficients for Thermocouples, RTDs and Thermistors
- Measures Negative Thermocouple Voltages
- Automatic Burn Out, Short-Circuit and Fault Detection



LT3065 - Low Noise 45V, 500mA, Linear Regulator with Programmable Current Limit

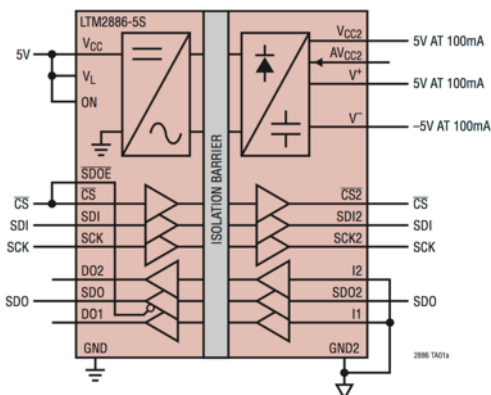
[Product Web Page](#)

- Input Voltage Range: 1.8V to 45V
- Output Current: 500mA
- Dropout Voltage: 300mV
- Programmable Precision Current Limit: $\pm 10\%$
- Power Good Flag
- Low Noise: 25 μ VRMS (10Hz to 100kHz)
- Adjustable Output ($V_{REF} = V_{OUT(MIN)} = 600mV$)
- Output Tolerance: $\pm 2\%$ Over Line, Load and Temperature
- Stable with Low ESR, Ceramic Output Capacitors (3.3 μ F Minimum)
- MP-Grade Now Available (-55°C to 125°C)



LTM2886 - SPI/Digital or I2C μ Module Isolator with Fixed $\pm 5V$ and Adjustable 5V Regulated Power

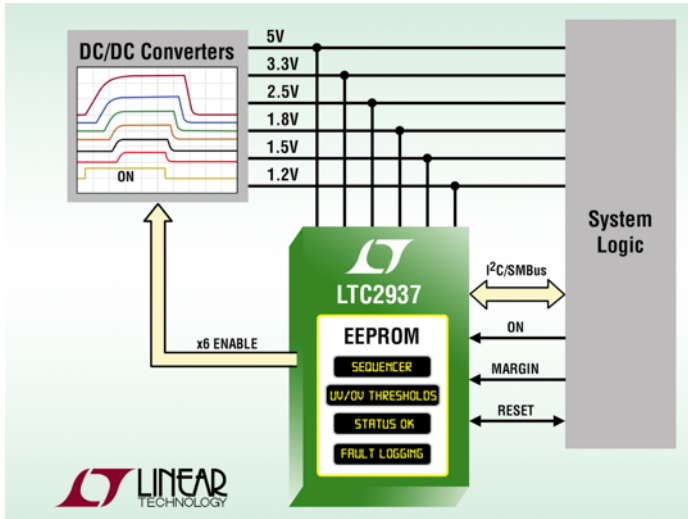
[Product Web Page](#)



- 6-Channel Logic Isolator: 2500VRMS for 1 Minute
- UL-CSA Recognition Pending
- Isolated DC Power Upto 100mA
- No External Components Required
- SPI/Digital (LTM2886-S) or I2C (LTM2886-I) Options
- High Common Mode Transient Immunity: 30kV/ μ s
- High Speed Operation:
 - 10MHz Digital Isolation
 - 4MHz/8MHz SPI Isolation
 - 400kHz I2C Isolation
- 3.3V (LTM2886-3) or 5V (LTM2886-5) Operation
- $\pm 10kV$ ESD HBM Across the Isolation Barrier
- Maximum Continuous Working Voltage: 560V_{PEAK}
- Low Current Shutdown Mode (<10 μ A)
- Low Profile (15mm \times 11.25mm \times 3.42mm) BGA Package

LTC2937 - Programmable Six Channel Sequencer and Voltage Supervisor with EEPROM

[Product Web Page](#)

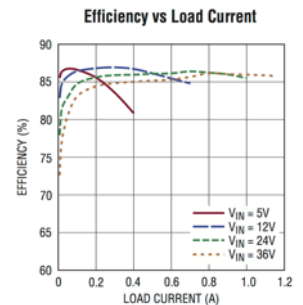
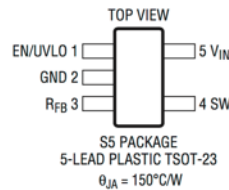
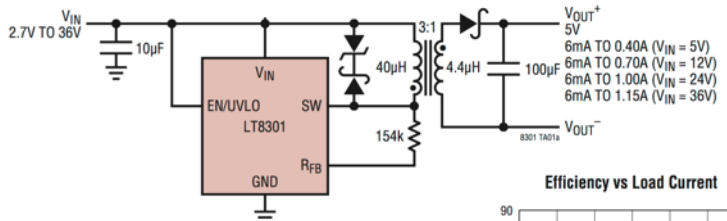


- Time and Event Based Sequencing
- 12 Programmable Undervoltage (UV) and Overvoltage (OV) Comparators: $\pm 0.75\%$ Accuracy
- I²C/SMBus Interface
- Stalled Power Supply Detection
- Single Wire Synchronization Allows Controller Expansion to 50 Devices (300 Power Supplies)
- Configuration and Fault Logging in EEPROM
- EEPROM Specified Over Entire Temperature Range, Rated to 125°C, 10k Writes, 20yr Retention
- Supported by LTpowerPlay® GUI
- Fault and System Status Registers
- Reset Output with Programmable Delay
- Wide Input Supply Voltage Range: 2.9V to 16.5V
- H-Grade Available (-40°C to 125°C)

LT8301 – Micropower 42V No-Opto Isolated Flyback Converter

[Product Web Page](#)

- 2.7V to 42V Input Voltage Range
- 1.2A, 65V Internal DMOS Power Switch:
 - ▶ 100µA in Sleep Mode
 - ▶ 350µA in Active Mode
- Boundary Mode Operation at Heavy Load
- Low-Ripple Burst Mode® Operation at Light Load
- Minimum Load <0.5% (Typ) of Full Output
- V_{OUT} Set with a Single External Resistor
- No Transformer Third Winding or Opto-Isolator Required for Regulation
- Accurate EN/UVLO Threshold and Hysteresis
- Internal Compensation and Soft-Start
- Output Short-Circuit Protection
- 5-Lead TSOT-23 Package
- MP-Grade Available (-55°C to 150°C)



Useful Web Links

- [Reliability Data Pack](#)
- [Device Materials Declaration](#)
- [MSL By Package Type](#)
- [µModule Design and Manufacturing Resources](#)

For more of this type of information start at the [Design Support](#) tab on the website.

ELECTRICAL TESTING BY PRODUCT GRADE			
LTC Grade	25.C Test	Maximum Test Temperature	Minimum Test Temperature
MP	100%	100% test at 125/150.C*	100% test at -55.C
H	100%	100% test at 125/150.C*	Sample test at -40.C
I	100%	Sample test at 85/125.C*	Sample test at -40.C
E	100%	Sample test at 85.C	Sample test at 0.C
C	100%	Sample test at 70.C	Sample test at 0.C

* As specified in datasheet Sample sizes: C, & E grade 125 pcs, I & H grade 1000 pcs