



LM2596ATPBCKGEVB: Step-Down Switching Regulator Evaluation Board

The LM2596 regulator is circuit ideally suited for easy and convenient design of a step-down switching regulator (buck converter). It is capable of driving a 3.0 A load with excellent line and load regulation. This device is available in adjustable output version and it is internally compensated to minimize the number of external components to simplify the power supply design. Demoboard size: 59mm x 44mm



Features and Applications

Features

- Adjustable Output Voltage Range 1.23 V 37 V
- Guaranteed 3.0 A Output Load Current
- Wide Input Voltage Range up to 40 V
- 150 kHz Fixed Frequency Internal Oscillator
- TTL Shutdown Capability
- Low Power Standby Mode, typ 80 μ A
- Thermal Shutdown and Current Limit Protection
- Internal Loop Compensation
- Moisture Sensitivity Level (MSL) Equals 1

Applications

- Simple HighEfficiency StepDown (Buck) Regulator
- Efficient PreRegulator for Linear Regulators
- OnCard Switching Regulators
- Positive to Negative Converter (BuckBoost)
- Negative StepUp Converters
- Power Supply for Battery Chargers

Evaluation/Development Tool Information

Product	Status	Compliance	Short Description	Parts Used	Action
LM2596ATPBCKGEVB	Active	Pb-free	Step-Down Switching Regulator Evaluation Board	LM2596TADJG	» Contact Local Sales Office

Technical Documents

Type	Document Title	Document ID/Size	Rev
Eval Board: BOM	LM2596ATPBCKGEVB Bill of Materials ROHS Compliant	LM2596ATPBCKGEVB_BOM_ROHS.PDF - 99.0 KB	1
Eval Board: Gerber	LM2596ATPBCKGEVB Gerber Layout Files (Zip Format)	LM2596ATPBCKGEVB_GERBER.ZIP - 50.0 KB	0
Eval Board: Schematic	LM2596ATPBCKGEVB Schematic	LM2596ATPBCKGEVB_SCHEMATIC.PDF - 140.0 KB	1
Eval Board: Test Procedure	LM2596ATPBCKGEVB Test Procedure	LM2596ATPBCKGEVB_TEST_PROCEDURE.PDF - 159.0 KB	1

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