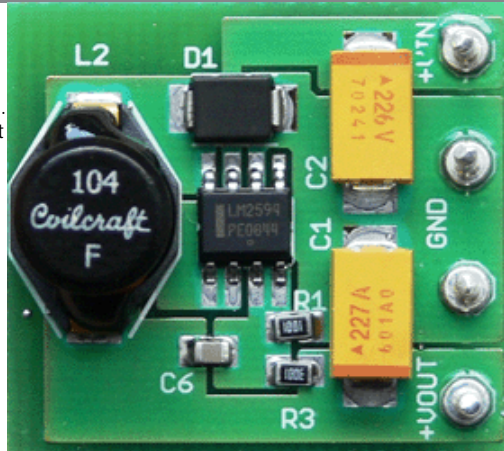




LM2594ASCBCKGEVB: Step-Down Switching Regulator Evaluation Board

Evaluation Board Description

The LM2594 regulator is circuit ideally suited for easy and convenient design of a step-down switching regulator (buck converter). It is capable of driving a 0.5 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: 28mm x 25mm.



Features and Applications

Features

- Adjustable Output Voltage Range 1.23 V 37 V
- Guaranteed 0.5 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 50 μ A
- Thermal Shutdown and Current Limit Protection
- Internal Loop Compensation
- Moisture Sensitivity Level (MSL) Equals 1
- PbFree Packages are Available

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 Board Information

Evaluation Board	Status	Compliance	Short Description	Parts Used	Action
LM2594ASCBCKGEVB	Active	Pb-free	Step-Down Switching Regulator Evaluation Board	LM2594DADJR2G	

Technical Documents

Type	Document Title	Document ID/Size	Rev
Eval Board: BOM	LM2594ASCBCKGEVB Bill of Materials ROHS Compliant	LM2594ASCBCKGEVB_BOM_ROHS.PDF - 32.0 KB	1
Eval Board: Gerber	LM2594ASCBCKGEVB Gerber Layout Files (Zip Format)	LM2594ASCBCKGEVB_GERBER.ZIP - 16.0 KB	1
Eval Board: Schematic	LM2594ASCBCKGEVB Schematic	LM2594ASCBCKGEVB_SCHEMATIC.PDF - 10.0 KB	1

Eval Board: Test Procedure	LM2594ASCBCCKGEVB Test Procedure	LM2594ASCBCCKGEVB_TEST_PROCEDURE.PDF - 95.0 KB	1
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