

# MAXIM

## MAX845 Evaluation Kit

Evaluates: MAX845

### General Description

The MAX845 evaluation kit (EV kit) is an assembled and tested isolated 5V power supply that meets PCMCIA height requirements. Two demonstration circuits are provided: a 100mA circuit that uses an industry-standard 78L05 regulator, and a 40mA circuit that uses a low-cost zener shunt regulator. Both circuits consist of a MAX845 IC (in the  $\mu$ MAX package), a low-profile transformer, a half-wave rectified voltage doubler, and a regulator.

### Component List

DESIGNATION	QTY	DESCRIPTION
C11-C14, C21-C24	8	0.1 $\mu$ F ceramic 1206 capacitors
D11, D12	2	Motorola MBR0520L Schottky diodes
D21	1	Series-connected dual Schottky diodes Central Semiconductor CMPSH-3S
R22	1	51 $\Omega$ 1206 resistor
U11, U21	2	Maxim MAX845EUA
U12	1	78L05 in surface-mount 8-pin SOIC
T11, T21	2	1:1:1 low-profile transformer Halo TGM-010P3
Z21	1	5.1V, 5% zener in SOT-23 Central Semiconductor CMPZ5231B

### Component Suppliers

SUPPLIER	PHONE	FAX
Central Semiconductor	(516) 435-1110	(516) 435-1824
Halo Electronics	(415) 969-7313	(415) 367-7158
Motorola	(602) 244-5303	(602) 244-4015

### Features

- ◆ Isolated Power Supply
- ◆ Low Profile (for PCMCIA cards)

### Ordering Information

PART	TEMP. RANGE	BOARD TYPE
MAX845EVKIT-MM	0°C to +70°C	Surface Mount

### Quick Start

The MAX845 EV kit is fully assembled and tested. Follow the steps below to verify board operation. **Do not turn on the power supply until all connections are completed.** The circuit on the top half of the board can provide up to 100mA. The circuit on the lower half of the board can provide up to 40mA.

- 1) Connect a 4.5V to 5.5V supply to the pad marked +5V IN. The power-supply ground return connects to the GND pad.
- 2) Connect a voltmeter and load (if any) to the +5OUT pad. The load ground return connects to the ISO GND pad.
- 3) Turn on the power and verify that the output is 5V  $\pm$ 5%.
- 4) To evaluate shutdown, cut the trace connecting SD to GND and connect SD to V<sub>CC</sub>.

# MAX845 Evaluation Kit

Evaluates: MAX845

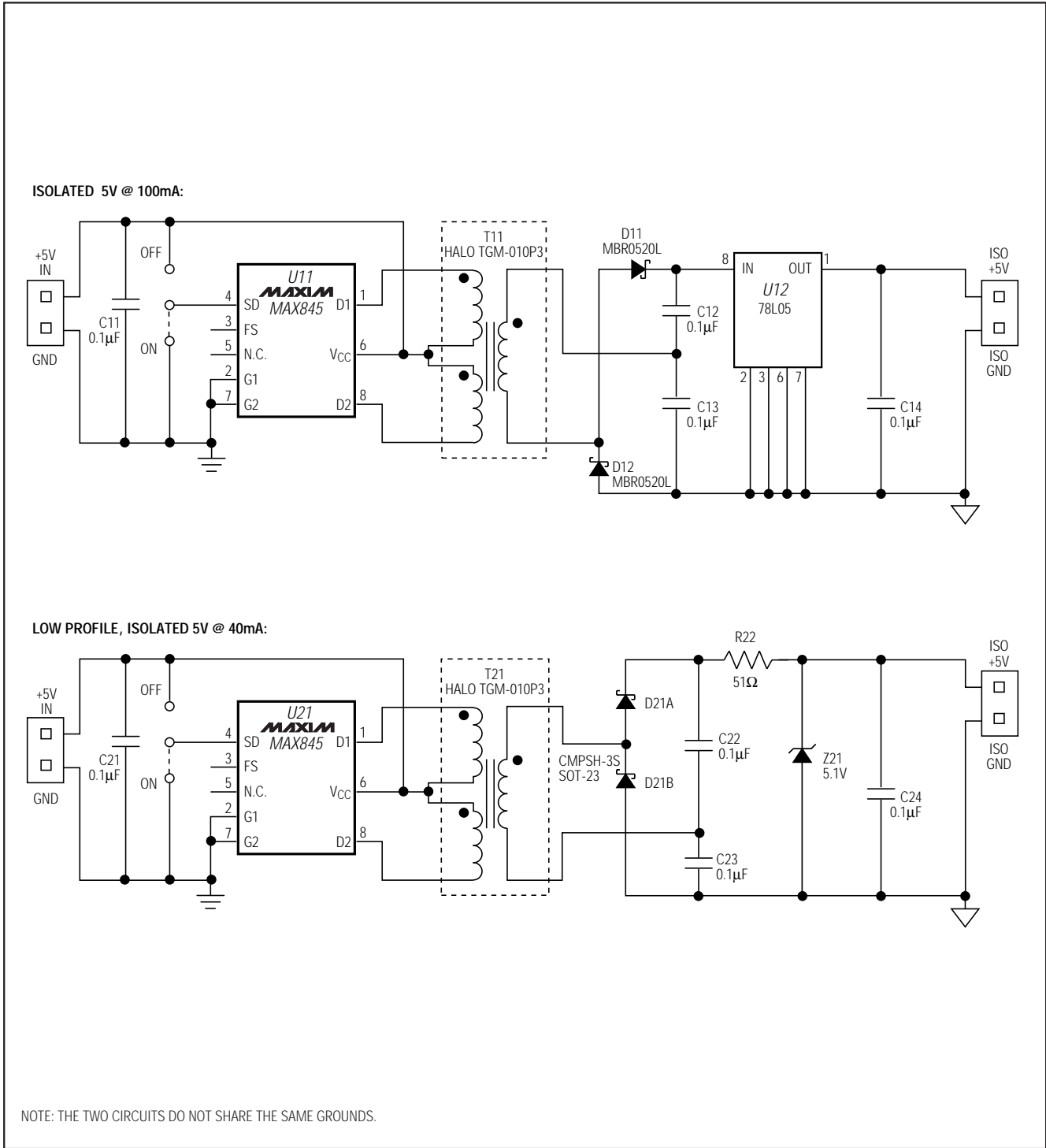


Figure 1. MAX845 EV Kit Schematic

# MAX845 Evaluation Kit

Evaluates: MAX845

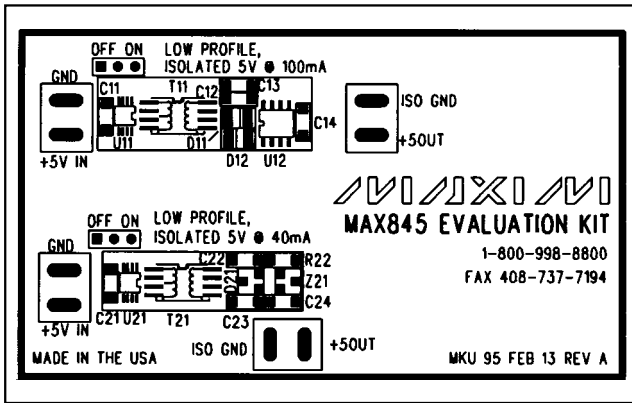


Figure 2. MAX845 EV Kit Component Placement Guide—Component Side

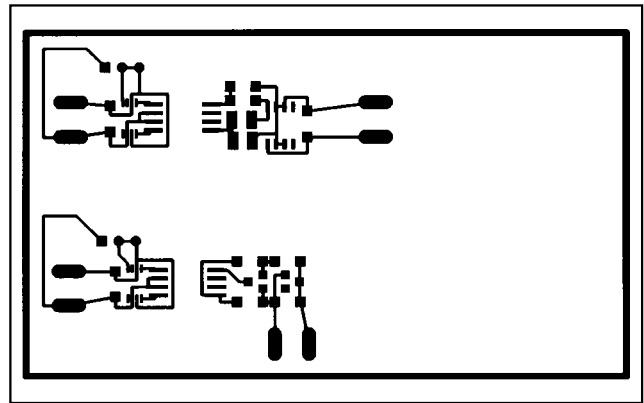


Figure 3. MAX845 EV Kit PC Board Layout—Component Side

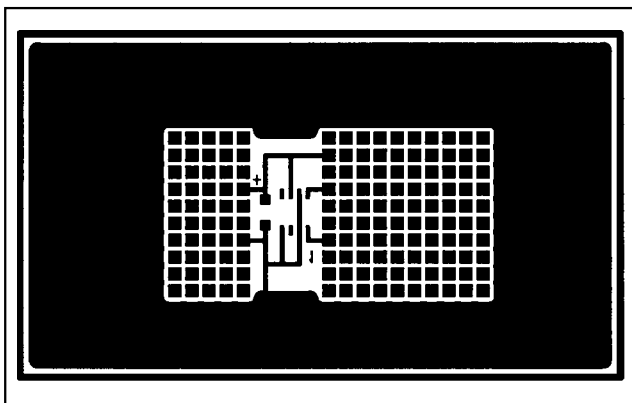


Figure 4. MAX845 EV Kit PC Board Layout—Solder Side

# MAX845 Evaluation Kit

Evaluates: MAX845

## NOTES

*Maxim cannot assume responsibility for use of any circuitry other than circuitry entirely embodied in a Maxim product. No circuit patent licenses are implied. Maxim reserves the right to change the circuitry and specifications without notice at any time.*

4 \_\_\_\_\_ Maxim Integrated Products, 120 San Gabriel Drive, Sunnyvale, CA 94086 408-737-7600

© 1997 Maxim Integrated Products

Printed USA

**MAXIM** is a registered trademark of Maxim Integrated Products.

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [Power Management IC Development Tools](#) category:*

*Click to view products by [Maxim](#) manufacturer:*

Other Similar products are found below :

[EVB-EP5348UI](#) [MIC23451-AAAYFL EV](#) [MIC5281YMME EV](#) [124352-HMC860LP3E](#) [DA9063-EVAL](#) [ADP122-3.3-EVALZ](#) [ADP130-0.8-EVALZ](#) [ADP130-1.8-EVALZ](#) [ADP1740-1.5-EVALZ](#) [ADP1870-0.3-EVALZ](#) [ADP1874-0.3-EVALZ](#) [ADP199CB-EVALZ](#) [ADP2102-1.25-EVALZ](#) [ADP2102-1.875EVALZ](#) [ADP2102-1.8-EVALZ](#) [ADP2102-2-EVALZ](#) [ADP2102-3-EVALZ](#) [ADP2102-4-EVALZ](#) [AS3606-DB](#) [BQ25010EVM](#) [BQ3055EVM](#) [ISLUSBI2CKIT1Z](#) [LP38512TS-1.8EV](#) [EVAL-ADM1186-1MBZ](#) [EVAL-ADM1186-2MBZ](#) [ADP122UJZ-REDYKIT](#) [ADP166Z-REDYKIT](#) [ADP170-1.8-EVALZ](#) [ADP171-EVALZ](#) [ADP1853-EVALZ](#) [ADP1873-0.3-EVALZ](#) [ADP198CP-EVALZ](#) [ADP2102-1.0-EVALZ](#) [ADP2102-1-EVALZ](#) [ADP2107-1.8-EVALZ](#) [ADP5020CP-EVALZ](#) [CC-ACC-DBMX-51](#) [ATPL230A-EK](#) [MIC23250-S4YMT EV](#) [MIC26603YJL EV](#) [MIC33050-SYHL EV](#) [TPS60100EVM-131](#) [TPS65010EVM-230](#) [TPS71933-28EVM-213](#) [TPS72728YFFEVM-407](#) [TPS79318YEQEVM](#) [UCC28810EVM-002](#) [XILINXPWR-083](#) [LMR22007YMINI-EVM](#) [LP38501ATJ-EV](#)