CAT4139AEVB

CAT4139 LED Driver Evaluation Board User's Manual

ON Semiconductor®

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EVAL BOARD USER'S MANUAL

Introduction

This document describes the CAT4139AEVB evaluation board for the CAT4139 high efficiency step-up LED driver. The CAT4139 delivers an accurate constant current ideal for driving LEDs.

Schematic

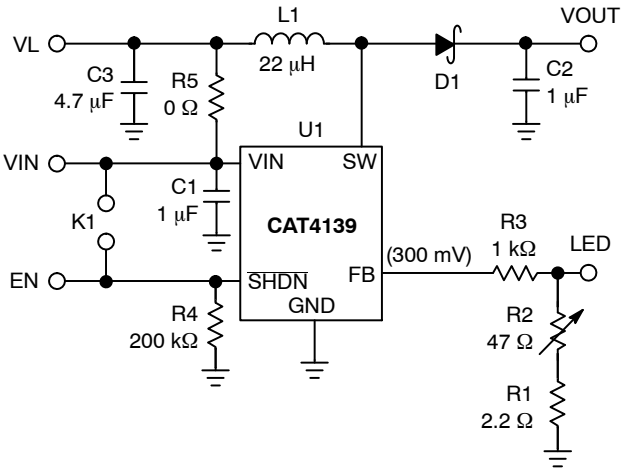

Figure 1. CAT4139AEVB Schematic

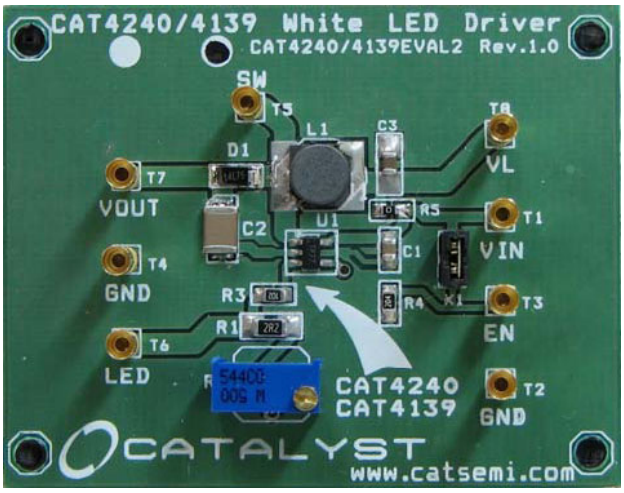

Figure 2. CAT4139AEVB Board

Table 1. BILL OF MATERIALS

Name	Manufacturer	Description	Part Number	Units
U1	ON Semiconductor, Catalyst Group	High Efficiency Boost LED Driver, SOT23-5	CAT4139	1
C1	Taiyo Yuden	Ceramic Capacitor 1.0 μF/6.3 V X5R, Size 0805	JMK212BJ105KK-T	1
C2	Taiyo Yuden	Ceramic Capacitor 1.0 μF/50 V X7R, Size 1210	UMK325BJ105KH-T	1
C3	Taiyo Yuden	Ceramic Capacitor 4.7 μF/6.3 V X5R, Size 0805	JMK212BJ475KD-T	1
D1	TSC	Schottky Diode 40 V/1 A, Sub SMA	SS14L	1
L1	NIC	Inductor 22 μH/0.7 A	NPIS43D220MTRF	1
R1	Panasonic	SMT Resistor 2.2 Ω/250 mW, Size 1206	ERJ-8GEYJ2R2V	1
R2	Vishay	Trim Pot 200 Ω/500 mW, Multi-Turn	T93YA470KT20	1
R3	Yageo	SMT Resistor 1 kΩ/100 mW, Size 0603	RC0603FR-071KL	1
R4	Yageo	SMT Resistor 200 kΩ/100 mW, Size 0603	RC0603FR-07200KL	1
R5	Yageo	SMT Resistor 0 Ω/125 mW, Size 0805	RC0805JR-070RL	1
K1	Tyco	2 Pin Header Connector 0.1" Pitch	640452-2	1

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