# CAT4139 LED Driver Evaluation Board User's Manual



ON Semiconductor®

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#### 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.

## **EVAL BOARD USER'S MANUAL**

#### **Schematic**

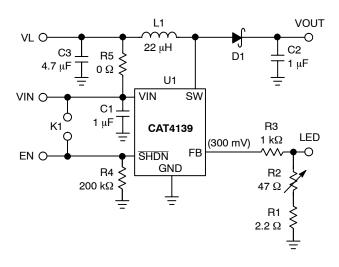




Figure 1. CAT4139AEVB Schematic

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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