

Product Overview

CAT4002A: LED Driver, 2-Channel, with 32 Dimming Levels and Reset

For complete documentation, see the data sheet.

The CAT4002A provides a two matched low dropout current sources to drive LEDs. The CAT4002A uses an external resistor RSET to set the current in the LED channels. Each LED channel includes an individual control loop allowing the device to handle a wide range of LED forward voltages while still maintaining tight current matching. The EN/DIM logic inputs supports device enable and a digital dimming interface for setting the LED channel current with 32 linear dimming levels. LEDs can be powered directly from a Lithium-ion battery due to the low dropout (50 mV at 20 mA) current sinks. The device is available in the 6-lead TSOT-23 and SC-70.

Features

- Low Dropout Driver 50 mV at 20 mA
- Dimming via 1-wire EZDim Interface
- 2 LED Current Sinks with Tight Matching
- 32 Dimming Levels
- No Switching Noise
- Shutdown Current less than 1 μ A
- LED Current set by External Resistor
- Thermal Shutdown Protection

Benefits

- Can drive LEDs at lower supply voltage VIN.
- higher resolution dimming.

Applications

- LCD Display Backlight

End Products

- Mobile Phones
- Digital Still Cameras

Part Electrical Specifications

Product	Compliance	Status	V _I Max (V)	I _O Max (mA)	LEDs in Series, Max #	LEDs in Parallel, Max #	Package Type
CAT4002ASD-GT3	Pb-free	Active	5.5	40	1	2	SC-88-6 / SC-70-6 / SOT-363-6
	Halide free						
CAT4002ATD-GT3	Pb-free Halide free	Active	5.5	40	1	2	TSOT-23-6

For more information please contact your local sales support at www.onsemi.com.

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