

## Photoflash Capacitor Charger With Igbt Driver

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## **Photoflash Capacitor Charger With Igbt**

A8837 Photoflash Capacitor Charger with IGBT Driver Allegro MicroSystems, Inc. 7 115 Northeast Cutoff, Box 15036 Worcester, Massachusetts 01615-0036 (508) 853-5000 [www.allegromicro.com](http://www.allegromicro.com) Overview The A8837 is a photoflash capacitor charger control IC with adjustable input current limiting. It also integrates an IGBT

## **Photoflash Capacitor Charger with IGBT Driver**

A8438 Photoflash Capacitor Charger with IGBT Driver Allegro MicroSystems, LLC 4 115 Northeast Cutoff, Box 15036 Worcester, Massachusetts 01615-0036 (508) 853-5000 [www.allegromicro.com](http://www.allegromicro.com) ELECTRICAL CHARACTERISTICS Typical values at  $T_A = 25^{\circ}\text{C}$  and  $V_{IN} = 3.3\text{ V}$  (unless otherwise noted) Characteristics Symbol Test Conditions Min. Typ. Max. Units

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## **Photoflash Capacitor Charger with IGBT Driver**

Photoflash Capacitor Charger with Programmable Current Limit and IGBT Driver A8835 Allegro MicroSystems, Inc. 7 115 Northeast Cutoff, Box 15036 Worcester, Massachusetts 01615-0036 (508) 853-5000 [www.allegromicro.com](http://www.allegromicro.com) Overview The A8835 is a photoflash capacitor charger control IC with adjustable input current limiting. It also integrates an IGBT

## **Photoflash Capacitor Charger with Programmable Current**

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Features, Applications: Photoflash Capacitor Charger with IGBT Driver FEATURES. Power with 1 Li+ or 2 Alkaline/NiMH/NiCAD batteries Adjustable output voltage >75% efficiency Three levels of switch current limit: 2.0 A Fast charge time Charge complete indication Integrated IGBT driver with trigger No primary-side Schottky diode needed Low-profile package (0.75 mm nominal

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height)

## **A8438 datasheet - Photoflash Capacitor Charger with IGBT ...**

The MAX8685 family charges high-voltage photoflash capacitors quickly, while limiting peak drain from the battery, ... Xenon Photoflash Charger with IGBT Driver and Voltage Monitor Fastest Charge-Time Photoflash Capacitor Charger with Voltage Monitor. Download Data Sheet. Subscribe.

## **MAX8685D Xenon Photoflash Charger with IGBT Driver and ...**

charging high voltage photoflash capacitor quickly and efficiently, an IGBT driver for igniting flash tube, and a voltage detector. Only a few external components are used to reduce PCB space and cost. RT9591 is available in VQFN-16L 3x3 package. (TOP VIEW) Smart Photoflash Capacitor Charger with

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IGBT Driver VQFN-16L 3x3 Marking Information

## **Smart Photoflash Capacitor Charger with IGBT Driver**

for charging photoflash capacitor and an IGBT driver for igniting flash tube. The photoflash capacitor charger uses constant primary peak current and SW falling control to efficiently charge the photoflash capacitor. Pulling the CHARGE pin high will initiate the charging cycle. During MOS on period, the primary current ramps up linearly ...

## **MOSFET Integrated Smart Photoflash Capacitor Charger with ...**

The A8837 is a highly integrated IC that charges photoflash capacitors for digital and film cameras. An integrated MOSFET switch drives the transformer in a flyback topology. It also features an integrated IGBT driver that facilitates the flash discharge function and saves board space.

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## **A8837: Photoflash Capacitor Charger with IGBT Driver**

Analog Devices' growing portfolio of photoflash chargers provides effective and low profile solutions to trigger a xenon flashlamp. These monolithic switching regulator chargers have current ratings from 225 mA to 2 A, can operate from input voltages as low as 1.8 V, are packaged in MSOP or ThinSOT packages, and require very tiny transformers—charg

## **Xenon Photoflash Charger | Analog Devices**

Xenon Photoflash Capacitor Charge with Photo Sense Interface  
The NCP5080 product is a high voltage boost driver dedicated to the Xenon power flashes. The built-in DC/DC converter is based on a flyback structure with an external transformer to adapt any range of high voltage demand. ... •Provides IGBT drive

## **NCP5080 Xenon Photoflash Capacitor Charge with Photo**

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### **Sense ...**

An integrated insulated gate bipolar transistor (IGBT) driver enables flash discharge and reduces external component count. The device includes an open-drain DONE output to indicate when the photoflash voltage has reached regulation. The device automatically refreshes the output voltage every 16s, thus efficiently maintains the capacitor charge

### **EVALUATION KIT AVAILABLE Xenon Photoflash Charger with ...**

the voltage at photo flash capacitor is calculated by Equation 3. Where:  $V_{OUT}$  - Volage at the photo flash capacitor at charge completion  $N$  - Turn ratio of transformer  $V_{FULL}$  - Charge completion voltage (specified by product data sheet)  $V_f$  - Forward voltage of FRD 6 Photo Flash Capacitor Charger Design With TPS65573 SLVA330-April ...

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## **Phot Flash Capacitor Charger Design With TPS65573**

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## **Photoflash Capacitor Charger With Igbt Driver**

Photoflash Capacitor Charger V<sub>IN</sub> Voltage Range 3.6 V V<sub>IN</sub>  
UVLO Rising edge, hysteresis = 200mV 2.7 2.8 2.9 V V<sub>IN</sub>  
Quiescent Current V(CHARGE)=High, V(SW) = 0, free run by T  
ONMAX 2.5 5 mA V<sub>IN</sub> Quiescent Current V(CHARGE)=High,  
V(FB) = 1.3V 50  $\mu$ A Shutdown Current from V<sub>IN</sub>  
V(CHARGE)=Low, V<sub>IN</sub> =3.3V 1  $\mu$ A

## **MP3351 60V, 2A Integrated Photo Flash Charger With**



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## **IGBT Driver**

The LT3484 and LT3485 families of photoflash capacitor chargers suit about any photoflash need. The basic photoflash functionality in each part is identical and both parts are capable of operating from 2AA cells. The integrated IGBT drive and voltage output monitor differentiate the LT3485 from the LT3484, along with its higher current ...

## **Photoflash Capacitor Chargers Keep Up with Shrinking ...**

To IGBT GatekCOUTVOUTD1T1R1R2R3R4 datasheet search, ... Photoflash Capacitor Charger with IGBT Driver: Download 15 Pages: Scroll/Zoom: 100% : Maker: ALLEGRO [Allegro Microsystems] ... To charge the photoflash capacitor, the A8438 integrates a. 40 V, DMOS switch that drives the transformer in a flyback.

## **A8438\_06 datasheet(1/15 Pages) ALLEGRO | Photoflash ...**

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Photoflash Capacitor Charger with IGBT Driver A84382 Allegro MicroSystems, Inc. 115 Northeast Cutoff, Box 15036 Worcester, Massachusetts 01615-0036 (508) 853-5000 [www.allegromicro.com](http://www.allegromicro.com) Absolute Maximum Ratings Characteristic Symbol datasheet search, datasheets, Datasheet search site for Electronic Components and Semiconductors, integrated circuits, diodes and other semiconductors.

**A8438\_06 datasheet(2/15 Pages) ALLEGRO | Photoflash ...** files and reduces the size of the photoflash charger circuit. Figure 1 shows a photoflash capacitor charger based on this device. The TPS6552A provides all the necessary charging controls, output feedback, charge completion status, insulated gate bipolar transistor (IGBT) driver, and circuit protections necessary to implement a small, efficient

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## **TPS65552A power portable photoflash - TI.com**

Photoflash Capacitor Charger  $V_{IN}$  Voltage Range 2.8 6 V  $V_{IN}$

UVLO Rising edge, hysteresis = 200mV typical 2.5 V  $V_{IN}$

Quiescent Current  $V(EN)=High$ ,  $V(FB) = 0.12$  mA  $V_{IN}$  Quiescent

Current  $V(EN)=High$ ,  $V(FB) = 336V$  100  $\mu A$  Shutdown Current

from  $V_{IN}$   $V(EN)=Low$ ,  $V_{IN} = 3.6V$  1  $\mu A$

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