

IS32FL3726A

16-CHANNEL COLOR LED DRIVER

Advance Information
August 2019

GENERAL DESCRIPTION

The IS32FL3726A is comprised of constant-current drivers designed for color LEDs. The output current value can be set using an external resistor. The output current value can be adjusted from 5mA to 60mA through the external resistor.

As a result, all outputs will have virtually the same current levels.

This driver incorporates 16-channel constant current outputs, a 16-bit shift register, a 16-bit latch and a 16-bit AND-gate circuit.

These drivers have been designed using the CMOS process.

APPLICATIONS

- Automotive LED driver
- LED signboards

FEATURES

- Output current capability and number of outputs: 60mA × 16 outputs
- Constant current range: 5mA to 60Ma
IOUT_MAX=45mA @ VCC=3V
IOUT_MAX=60mA @ VCC=3.3V
- Application output voltage: ≥0.4V
- For anode-common LEDs
- Power supply voltage range, VCC = 3.0V to 5.5V
- Serial and parallel data transfer rate: 30MHz (Max. cascade connection)
- Operating temperature range, T_A= -40°C ~ +125°C
- Package: QFN-24 (4mm×4mm) , SSOP24 and eTSSOP-24
- Current accuracy (All output on)
-Bit to bit: < ±3%.
-Device to device: < ±3%.
- AEC-Q100 qualification in progress

TYPICAL APPLICATION CIRCUIT

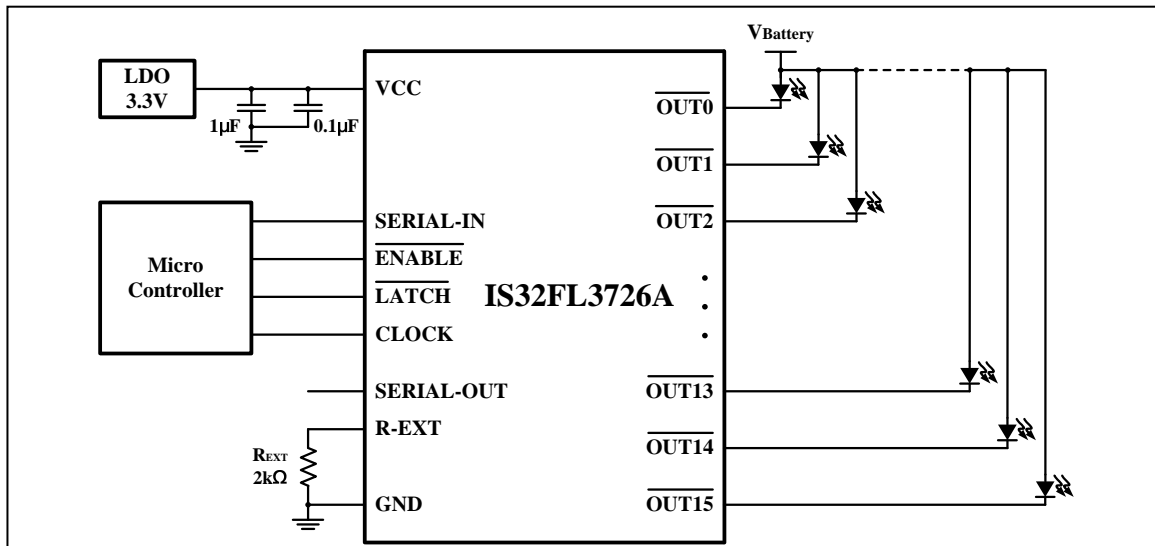


Figure 1 Typical Application Circuit

IS31FL3726A

TYPICAL APPLICATION CIRCUIT (CONTINUE)

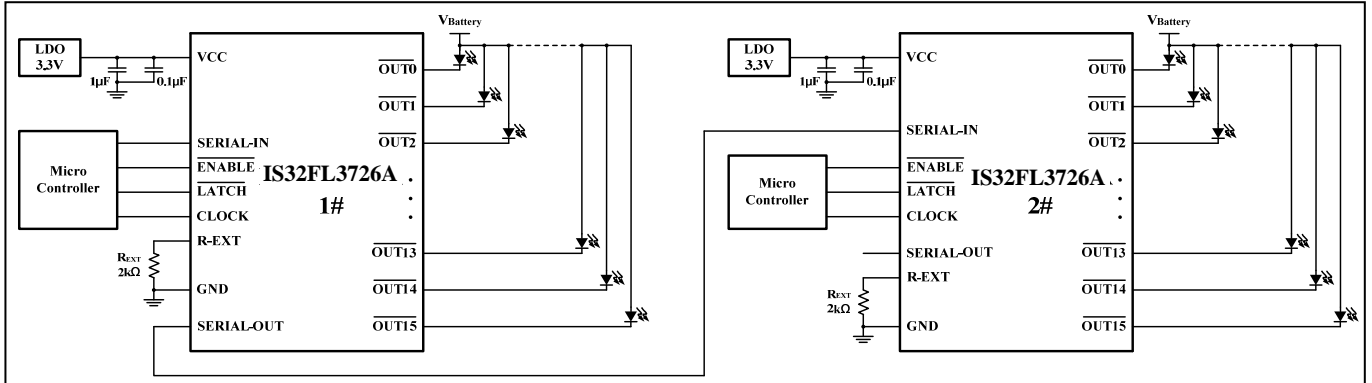


Figure 2 Typical Application Circuit (Synchronization-Work)