

Linear Adjustable Constant Current LED Driver MEL7136A/MEL7136B

General Description

The MEL7136A is a constant current regulator for driving LEDs with low quiescent current and low dropout voltage. The current is adjustable from 10mA to 1A with an external resistor.

The MEL7136B is only a controller, and must be connected to an external NMOS. MEL7136B is an external transistor, is suitable for applications requiring a high output current. The output current of ME7136B can be adjusted by external DC control voltage or PWM control.

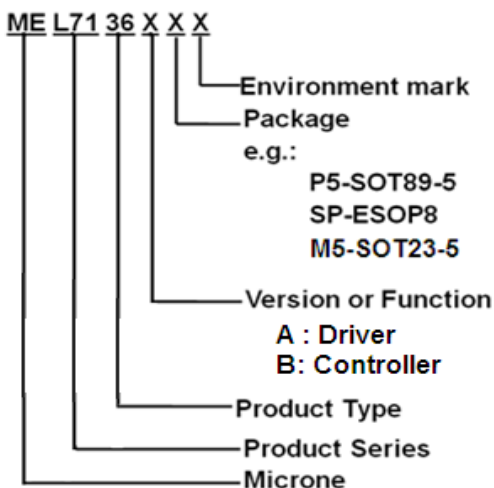
Only one external resistor is required to achieve a constant current LED driver. Soft start, thermal protection and low voltage protection are also provided.

The driver pin EXT is provided for current and voltage extension. Adding an external NMOS or NPN transistor to this pin can extend current and voltage range.

Features

- MEL7136B is only a controller, and must be connected to an external NMOS.
- The output current of ME7136B is adjustable
- Sink current: 10mA to 1A adjustable with an external resistor
- Current and voltage range extendable by adding an external NMOS or NPN transistor
- Power supply voltage: 2.7-18V
- Low drop out voltage: 50mV@1A
- Low quiescent current: 80uA
- Thermal Shutdown protection: 165°C
- Soft start
- Low voltage protection: 2.5V
- Package: MEL7136A: SOT89-5, ESOP8
MEL7136B: SOT23-5

Selection Guide



Typical Application

- Power Led driver and controller