

THE MAIN PARAMETERS:

- Power Supply Voltage: 2.7~5.5V
- Extensible Power Supply: Above 400V
- Sink Current: 100mA~ 3000mA
- Current Accuracy: $\pm 6\%$
- Thermal Protection: 120 °C
- Low Voltage Protection: 2.5V
- Soft-start

Description

QX7136 is a linear constant current LED driver chip.

In addition to LEDs, QX7136 also needs the external connection of a NMOS and a resistor to set the LED current from 100mA to 3000mA.

QX7136 includes Soft-start Circuit, Thermal Protection Circuit, Bandgap Circuit, UVLO Protection, Short Circuit Protection.

When the input voltage is higher, or when the output current is larger, the power consumption of QX7136 is larger, then QX7136 will go into Thermal Protection status to reduce the output current, which can effectively protect the chip from damage caused by overheating when the junction temperature has exceeded 120 °C .