

New Product**Inductive White LED Driver IC with Synchronous Rectifier**[BACK](#)**TK65600B****Outline**

The TK65600B is a current-mode PWM white LED driver IC with synchronous rectifier, optimized for battery controlled systems where power consumption and size are primary concerns. Efficiency has been optimized for this application.

Features

- Minimum external components
- High efficiency: 85%
- LED current regulated
- Internal synchronous rectifier
- PWM signal intensity control
- Drive a string of 2 to 3 LED
- 600kHz PWM operation
- Low supply current
- Enable pin
- Short circuit protection and over voltage protection
- Very small flip chip:
FC-8 (1.54 x 1.54 x 0.6mm)

Dimensions

Dimensions

Packag

**Specifications**

TA=25°C

Parameters	Symbol	Value (typ.)	Units
Quiescent current	I _Q	250	μA
Standby current	I _{STB}	max.2.0	μA
Boost frequency	F _{BOOST}	600	kHz
Enable full on voltage	V _{EN (on)}	min.1.2	V
Enable off voltage	V _{EN (off)}	min.-0.3	V
PWM freq. range	F _{EN}	max.200	Hz
Over voltage protection	OVP	min.13	V

Block Diagram