General Description

The ET6115 is a continuous conduction mode inductive step-down converter, designed for driving single multiple series connected LED efficiently from a voltage source higher than the total LED chain voltage. The device operates from an input supply between 9V and 36V and provides an externally adjustable output current of up to 1A. Depending upon the supply voltage and external components, the ET6115 can provide more than 30 watts of output power.

The ET6115 includes the power switch and a high-side output current sensing circuit, which uses an external resistor to set the nominal average output current, and a dedicated DIM input accepts a wide range of pulsed dimming.

The ET6115 is available in SOT89-5,TO-252, SOT-23 and MSOP-8L packages.

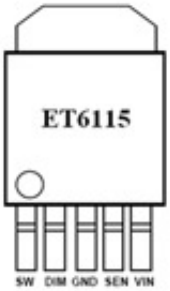
Features

- Wide input voltage range: 9V to 36V
- Up to 1A output current
- Single pin on/off and brightness control using PWM
- Up to 1MHz switching frequency
- Typical 3% output current accuracy
- Inherent open-circuit LED protection
- High efficiency (up to 96%)
- High-Side Current Sense
- Hysteretic Control: No Compensation
- Adjustable Constant LED Current

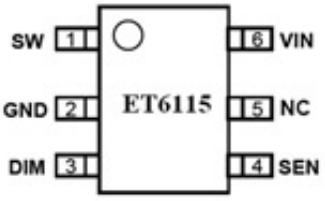
Applications

- Low voltage halogen replacement LEDs
- Automotive lighting
- Low voltage industrial lighting
- Illuminated signs

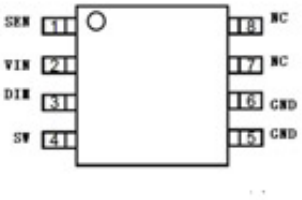
Pin Configuration



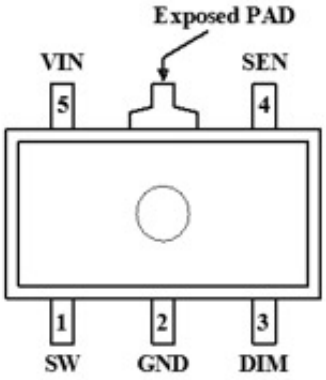
TO-252



SOT-23



MSOP-8L



SOT89-5