

Triac Dimmable Offline LED Driver

Features

- Triac dim decoder circuit for LED dimming
- Application voltage range 80VAC – 277VAC
- Capable of controlling LED currents greater than 1A
- Low quiescent current
- Programmable off-time allows for constant ripple current
- Input supply under-voltage lockout
- Thermal shutdown
- Over current protection
- No visible flicker
- MSOP-8 package

Applications

- Retro Fit Lamps
- Solid State Lighting
- LED modules such as LED spots, down-lights
- LED strings suitable for retail displays, etc.

General Description

The G5345 is an adaptive constant off-time AC/DC buck controller for dimmable LED luminaries designed to be compatible with triac dimmers. The G5345 provides a constant current for illuminating high power LEDs and includes a triac dim decoder. The LED brightness is modulated by the scheme of PWM-dimming. The G5345 includes a bleeder circuit to ensure proper triac operation by allowing current flow while the line voltage is low to enable proper firing of the triac. A passive PFC circuit ensures good power factor by drawing current directly from the line for most of the cycle, and provides a constant positive voltage to the buck regulator. Additional features include thermal shutdown, current limit and input supply under-voltage lockout.

Ordering Information

ORDER NUMBER	MARKING	TEMP. RANGE	PACKAGE (Green)
G5345P81U	G5345	-40°C to +125°C	MSOP-8

Note: P8: MSOP-8

1: Bonding Code

U: Tape & Reel

Pin Configuration

