

Product Overview

NCL30073: LED Driver, Current-Mode PWM Controller for Phase Cut Dimmable LED Applications

For complete documentation, see the data sheet.

The NCL30073 is a highly integrated PWM controller capable of delivering a rugged and high performance LED converter in a tiny TSOP-6 package. With a supply range up to 24 V, the controller hosts a 65 kHz switching circuitry operated in peak current mode control. When the voltage on FB pin decreases, the controller enters skip cycle while limiting the peak current.

Features

- Square Nature of Input Current Waveform
- Single Winding Inductor
- Adjustable Over Power Protection
- Frequency Foldback down to 26 kHz
- <30 eBOM counts

Applications

- Phase-Cut Dimming Retrofit Bulbs
- Phase-Cut Dimming Down Light
- Phase-Cut Dimming Tubes
- Phase-Cut Dimming LED Drivers

Benefits

- Good Phase-Cut Dimmer Compatibility
- Low eBOM cost
- Max power delivery with good standby power
- High system reliability
- Low cost and Low profile LED driver design

End Products

- LED Bulb
- LED Tubes
- LED Downlight
- LED Retrofit
- LED Driver

Part Electrical Specifications

Product	Compliance	Status	Topology	V _I Min (V)	V _I Max (V)	V _O Max (V)	I _O Max (mA)	f _{SW} Typ (kHz)	Package Type
NCL30073SN065T1G	Pb-free Halide free	Active	Step-Up/Step-Down/SEPIC	20 V _{AC}	305 V _{AC}	23.9 V - V _{DRV}	300/500 - I _{Source/Sink}	65	TSOP-6

For more information please contact your local sales support at www.onsemi.com.

Created on: 10/18/2019