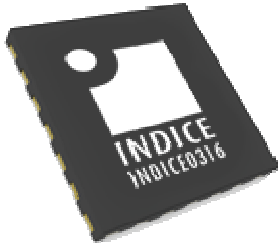




G3 MR16 LED Driver IC

Product Number: INDICE0316



Description

Indice's next generation "G3" MR16 Driver IC offers unparalleled performance for low voltage LED lamps. Benefiting from ultra high compatibility and smooth deep dimming, the INDICE0316 IC also enables precise control over the Active Temperature Management feature. Increased driver efficiency means the IC has incredibly high power density.

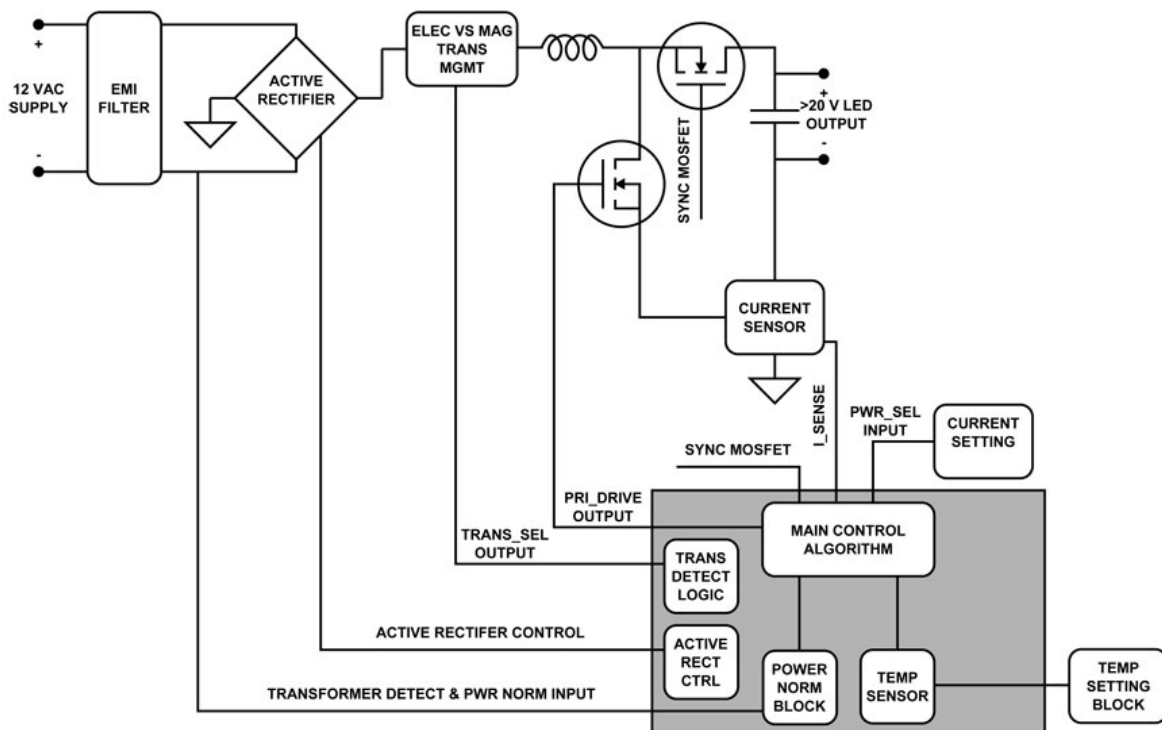
Features

- Incredibly high power density
- Deep dimming – down to 0% light
- Active rectifier controller for ultra high driver efficiency
- Active Temperature Management
- Low part count – <22 components
- Ultra small form factor

Applications

- MR16 retrofit lamps
- AR111 retrofit lamps
- Low voltage outdoor lighting (12VAC)
- Marine and automotive LED lighting

Functional Block Diagram





G3 MR16 LED Driver IC

Product Number: INDICE0316

Specifications

Target power	Up to 20W
Input voltage	12VAC / 12VDC
LED voltage range	Any
Deep dimming	Yes: 100 – 0% light
Leading and trailing edge dimming	Yes
Electronic transformer compatible	Yes
Topology	Boost
Active Temperature Management	Yes
Driver efficiency	>90%
Switching frequency	Up to 4MHz asynchronous
Power factor on electronic transformer	>0.9 (dependent on transformer)
EMC compliance on transformers	CISPR15 / FCC

Feature and package options

IC Order Number	Package	Features
INDICE0316	QFN16	<ul style="list-style-type: none">• Ultra high transformer compatibility• Dimming on leading and trailing edge dimmers• Boost topology• Deep dimming• Active Temperature Management with adjustable temperature point• Power normalization keeps light level consistent across transformers• Active rectifier control for increased driver efficiency• Synchronous MOSFET for boost stage to increase driver efficiency

Note: Specifications are subject to change. For up-to-date product information, please visit www.indicesemi.com.