LED LIGHTING AND IoT POWER SOLUTIONS

Automotive-Compliant LED Lighting

IoT and LED Power Supply

Connected Lighting

Infotainment Display

Industrial LED Lighting

diodes.com
Diodes Incorporated products are well recognized for their simplicity, cost effectiveness, high efficiency, and incredible versatility to cover a wide range of LED lighting and IoT power applications and solutions:

- **Automotive-Compliant LED Drivers**
- **Connected LED Lighting and IoT Power Drivers**
- **Industrial LED Lighting and Power Drivers**
- **Infotainment Display Drivers**
- **Triac Dimmable and Offline LED Drivers**

**Diodes automotive-compliant LED drivers** help customers build innovative, reliable and cost-effective lighting systems that meet today’s stringent automotive LED Lighting requirements. Our highly efficient LED solutions extend the life of the automotive lighting system, enable greater driver and pedestrian safety, and enhance the driving experience.

**Diodes connected lighting and IoT power drivers** provide low standby power, increased efficiency, and high integration with buck, boost, buck-boost, and flyback. Its wide operating voltage range operates from 30Vac up to 277Vac. In addition, its optimized transient response supports the requirement of MCU, BLE, ZIGBEE and Wi-Fi communications.

**Diodes industrial LED lighting and power drivers** combine robust low thermal packages with high power density for industrial dimmable lighting and power applications. Integrated switching MOSFET LED drivers are capable of delivering LED currents up to 3A with operating DC voltage up to 400V. Controllers can deliver higher voltage and power using external MOSFET. Topologies include buck, boost, buck-boost, linear and multi-channels.

**Diodes infotainment display drivers** enhance user interface display experience with best-in-class features for backlight, AMOLED bias supply and camera flash solutions in personal electronic and automotive applications. Combined with high efficiency, wide input/output voltage range, high dimming ratios, selectable switching frequency, fault protection notification, digital interface and compact solutions, these drivers can extend battery life, reduce board space and BOM cost.

**Triac dimmable and offline LED drivers** provide the most cost-effective and quality solutions for retrofit bulbs and commercial LED lighting system. The triac dimmable LED Drivers are capable of being smoothly dimmed through triac dimmers. Offline LED driver topologies include AC linear, buck, buck-boost, boost and flyback with main input voltages: 120Vac and 230Vac.

To help customers build innovative, reliable, and cost-effective products, Diodes offers design tools and solutions that will calculate and optimize systems performance.

diodes.com/applications/lighting
## AUTOMOTIVE-COMPLIANT LED LIGHTING

### THE DIODES ADVANTAGE

- High-performance, high-temperature LED drivers in low thermal impedance packages qualified to AEC-Q100
- High-accuracy LED control: 1% reference tolerance
- Better brightness control and matching between lamps
- Multi-topology device using one sense resistor
- Suitable for buck, boost, and buck-boost lighting
- LED current thermal management
- Reduces ILED at high temp -> improves reliability
- Diagnostic feedback pins
- Provide fault status for MCU on-board

### CONNECTED LIGHTING AND IoT POWER

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<td>Single Winding Inductor</td>
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* Engineering samples available upon request

### AUTOMOTIVE-COMPLIANT LED LIGHTING

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<th>Part</th>
<th>Topology</th>
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<th>Input Voltage</th>
<th>Max Output Voltage</th>
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<th>Sense Voltage</th>
<th>Efficiency</th>
<th>Temp Range</th>
<th>Package</th>
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* Engineering samples available upon request

* Engineering samples available upon request

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**Part**

**Topology**

- Buck
- Buck-Boost
- Linear
- Transformer with Auxiliary Winding
- MOSFET

**Power (Watt)**

- ≤= 0.2W
- ≤= 100W
- ≤= 15W
- ≤= 100W
- ≤= 100W

**Magnetic Component**

- Single Winding Inductor
- Transformer with Auxiliary Winding
- Linear LED Driver

**MOSFET Options**

- 500V/DSA
- PFC Controller
- 600V@82A @4A
- PFC Controller 30/5A
- Ripple Suppress Controller

**PF**

- Adj
- >0.9
- >0.9
- >0.9
- –

**Output Voltage**

- Adj
- PWM
- PWM-Analog
- PWM-

**Dimmable**

- –
- PWM
- PWM-Analog
- –

**Mains Voltage**

- 30-277
- 85-277
- 85-277
- 85-277
- 85-277

**Package**

- SO-27T3-5
- SO-8
- SO-27T3-6
- TSSOP-16EP
- SO-8-EP
- SO-8
- SO-27T3-5

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**Part**

**Topology**

- Buck
- Boost
- Flyback
- PFC Controller
- Buck-Boost
- Linear

**Power (Watt)**

- s=0.2W
- ≤= 100W
- ≤= 100W
- ≤= 40W
- ≤= 15W
- ≤= 100W

**Magnetic Component**

- Single Winding Inductor
- Transformer with Auxiliary Winding
- Transformer with Auxiliary Winding
- Single Winding Inductor
- Transformer with Auxiliary Winding
- Transformer with Auxiliary Winding

**MOSFET Options**

- 500V/DSA
- PFC Controller
- 600V@82A @4A
- PFC Controller 30/5A
- –

**PF**

- Adj
- >0.9
- >0.9
- >0.9
- –

**Output Voltage**

- Adj
- PWM
- PWM-Analog
- –

**Dimmable**

- –
- PWM
- PWM-Analog
- –

**Mains Voltage**

- 30-277
- 85-277
- 85-277
- 85-277

**Package**

- SO-27T3-5
- SO-8
- SO-27T3-6
- TSSOP-16EP
- SO-8-EP
- SO-8
- SO-27T3-5

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* Engineering samples available upon request

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AL1788 is a high-performance AC/DC power factor corrected AC input and CV mode output regulator for LED lighting applications.

AL8843 is a hysteresis mode step-down DC/DC converter designed to drive LEDs with a constant current. It operates from an input supply between 4.5V and provides an externally adjustable output current up to 3A.

AL17050 is a universal AC high-voltage input step-down regulator that provides accurate constant voltage for IoT applications.

**THE DIODES ADVANTAGE**

- Primary Side Control for CV Stage
- High Power Factor and Low THD
- <200mW Standby Power for System
- Output Current up to 3A for Step-Down LED Driver
- Accurate LED Current Regulation
- Support PWM Dimming in CC Stage
- Multiple Protections: UVLO, OVP, OCP, OTP
- Low-Cost Independent Power for MCU

**CONNECTED LIGHTING AL1772 + AL17050 + AL1783**

AL1772 is an integrated AC-DC PFC controller and dual-channel LED driver with PWM dimming control. AL1772 is targeted for dimmable and tunable white connected lighting applications.

AL1783 is a three-channel linear LED driver with PWM dimming control designed to target for three-channel smart connected lighting applications.

AL17050 is a universal AC high-voltage input step-down regulator that provides accurate constant voltage for IoT applications.

**THE DIODES ADVANTAGE**

AL1772 for Main Dual-LED Channel CCT Tunable White Functions

- Integrates High Power Factor Offline AC power PWM Controller and LED Driver in Single Chip
- Supports two independent PWM dimming for each channel with two different maximum channel current settings
- Integrates Adaptive Thermal Management (ATM) scheme to minimize non-productive power dissipation

AL1783 for 3-Channel Connected Lighting Applications

- Wide Input Voltage Range from 6.5V to 60V
- PWM Dimming Control for Each Channel
- Integrates Adaptive Thermal Management (ATM) scheme to minimize non-productive power dissipation
The AL3353 is a highly integrated and cost-effective LED controller optimized for LCD monitor and TV backlighting application. The AL3353 offers PWM-to-analog dimming method for a wide range of dimming control. The AL3353 offers comprehensive protection features to protect the system in various fault conditions.

**THE DIODES ADVANTAGE**
- Wide Input Voltage Range: 9V to 40V
- Constant current output or constant voltage output with low BOM cost
- Current mode PWM controller with good dynamic response
- Support PWM-to-Analog Dimming with 100:1
- Built-in multiple protections: over-voltage protection, over-current protection, LED open protection, output short protection, diode & inductor short protection, LED cathode short to GND protection, OTP

The AL5814/Q* is an 8-terminal and AL5816/Q* is an 5-terminal adjustable linear LED driver-controller offering excellent temperature stability and output current capability. It works with a wide input voltage range from 4.5V to 60V.

With an external LED driving power device, its internal power dissipation is minimized compared with traditional linear LED drivers. This makes it ideal for medium to high current LED circuits.

**THE DIODES ADVANTAGE**
- 15mA Output Drive Capability for MOSFET or Bipolar Transistor
- Programmable Reference
- Low Temperature Drift
- Compatible for PWM Dimming
- LED Open Protection Detected by VFAULT Pin
- Built-in multiple protection: UVLO, OTP, and thermal foldback protection

* Engineering samples available upon request
# INDUSTRIAL LED LIGHTING

## Part

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<tr>
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<th>PF Dimmable</th>
<th>Mains Voltage</th>
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</tr>
</thead>
<tbody>
<tr>
<td>AL5892*</td>
<td>Linear</td>
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<tr>
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<td>Buck-Boost</td>
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<td>Single Winding</td>
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<td>110/230</td>
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* Engineering samples available upon request

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### TRIAC DIMMABLE AND OFFLINE LED DRIVERS

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<th>Mains Voltage</th>
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* Engineering samples available upon request
INFOTAINMENT DISPLAY

High Efficiency, Cost-Effective Infotainment Display LED Drivers for Smartphone, Notebooks, TVs and Monitors

**THE DIODES ADVANTAGE**

- **High Precision Current Source**
  The LED current accuracy is ±3%. The current matching between any channel is ±0.5% (typical for AL3065A)

- **Versatile Protection Features**
  Meet strict safety requirements with built-in multiple protections: OVP, OCP, LED open, Output short circuit. Diodes and Inductor short circuit, LED cathod short to GND, and OTP.

- **Drive 4 LED strings at 250mA per string, 400mA pulse current max**
  High LED current precision and channel matching meets the latest requirements for medium to large LCD panels including 3D TVs

- **Adjustable operating frequency from 0.1MHz to 1MHz**
  Supports flexible operating frequency for better selection on inductor size and EMI solution

- **High efficiency, high switching boost solutions cover all screen sizes**
  Smaller inductor values and overall footprint

- **Analog, Direct (10.000:1) and Fast PWM Dimming Controls**
  Versatile and wide dimming range for large brightness variations

### The DIODES Part Comparison Table

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<tr>
<th>Part</th>
<th>Topology</th>
<th>Input Voltage</th>
<th>Min</th>
<th>Max</th>
<th>Current</th>
<th>Sense</th>
<th>Max Output Voltage</th>
<th>Max Output Current Per Channel</th>
<th>LED Current Accuracy</th>
<th>Max Switching Frequency</th>
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* Engineering samples available upon request
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