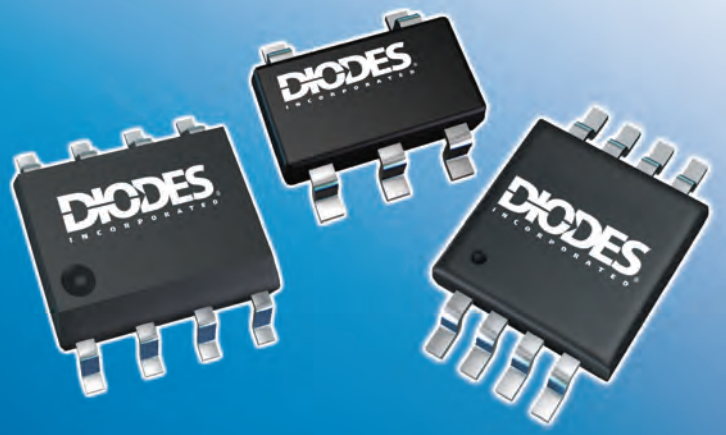
DIODES INCORPORATED

Why DIODES?

LED Drivers



Simple Solutions

- Low Component Count Circuits
- Small Packages
- Wide Input and Output LED Voltage Range
- High Efficiency and High Power Factor
- PWM and Analog Dimming Capable
- Wide Triac Dimming Ranges and Compatibility
- Versatile LED Driver Topologies

Wide Application Fit

- LED Retrofit Lamps
- LED Lighting Power Supply
- Backlights TV/Monitor
- Portable Electronics
- Automotive
- Signage
- Appliances

Quality and Customer Support

- Range of AEC-Q100 Products for the Automotive Industry
- Halogen and Antimony-Free Products
- Online-support tools—Circuit Calculators, etc.
- Local FAE Support
- Wide Discrete Portfolio Complements LED Driver ICs to Provide Full Application Solution

Wide Product Selection

- **Offline**—High PF and triac dimmable solution
- **Medium Voltage**—Simple, versatile solutions for LED dimming
- **Low Voltage**—Compact solutions for optimized costs
- **Linear**—Small footprint packages enable simple, low-cost solutions
- **Backlights**—Wide LCD screen size display backlights LED driver solutions

FOR MORE INFORMATION: info@diodes.com | www.diodes.com

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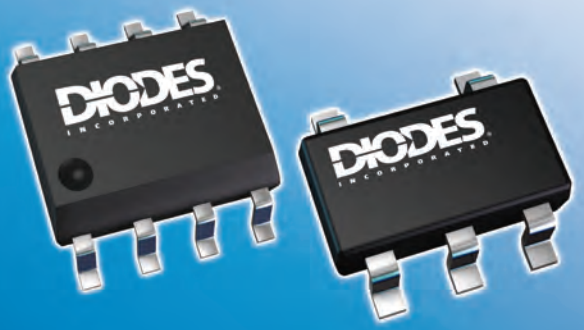

Diodes offer Design Solutions for LED Lighting

Application	LED Driver	Switch	Rectifier	Diodes Advantage
MR16 LED Lamps	AL8811, AL8812, AL8807, AL8808, AL8820 PAM2861, PAM2863	ZXMN6A11Z, MMBT3094-7-F	SBR3U30P1, SBRT3M40P1 SBR3U60P1 DFLS240L,B240,B140,DFLS2100	Small footprint solutions
B10, E14, GU10 Retro Fit Lamps	AL9910, AP1680 AP1684A, AP1694A, AP1695	ZXMN20B28LK3 ($120V_{AC}$) DMG4N65CT ($230V_{AC}$)	DFLR1600, DFLR1800	Low BOM costs; solutions for non-dimmable and dimmable LED lamps
A19, E27 Retro Fit Lamps	AL9910, AP1694 AP1684A, AP1694A, AP1695	DMG4N65P5 ($230V_{AC}$) AP13003	(Bridge) DF06S, SF30JG-B	Low BOM costs; wide dimming range and good dimmer compatibility for dimmable lamps
Par30, Par 38 Retro Fit Lamps	AP1694, AP1682E, AP1684A, AP1694A	ZXMN20B28LK3 ($120V_{AC}$) DMG9N65CT ($230V_{AC}$) AP13005	(Bridge) DF06S, SF30JG-B DSRHD02/04/06/08/10	High efficiency and power factor
T8, T12 Fluorescent Tube Replacement	AP1682E, AP1688 AP1662	DMG4N65CT ($230V_{AC}$)	(Bridge) DF06S, SF30JG-B (DSRHD02/04/06/08/1	Full input voltage range
Residential	AL880x, AP880x ZXLD136x, PAM286x	–	MUR160G	Simple solutions
LED Wall Washers	ZXLD1370/1	ZXMN10A09K/DMN6068LK3	B1100	Drives long LED chains
LED Flashlight	PAM2805, ZXSC31x, ZXSC41x	– ZXTN25012EFH	B120, PD3S120L	Compact solution
LED Signs	ZXLD1370	ZVN2120G	DDZ9702T	Multi topology drive capability
	AL8400	DMN6068SE/DNLS320E	–	Simple and versatile
	AL5812/1	–	–	Adjustable constant LED current
Automotive - Interior Lamps	AL8400Q	ZXMN4A06G/DNLS320E	BZT52Cx	Versatile solution driving external BJT or MOSFET
	ZXLD1356Q	–	PDS3S140	Low component count solution; withstands 60V load dump
Automotive - Daytime Running Lamps	ZXLD1371Q	DMN6068LK3	PDS3S140	Versatile solution supporting Buck and Buck-boost configurations with V_{IN} down to 5V
Automotive - Fog Lamps	ZXLD1366Q	–	PDS3S140	SO-8EP enables the drive of 1W and 3W LEDs over wide temp; 60V load dump

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