



For immediate release

Versatile Boost Controller for LED/LCD Applications from Diodes Incorporated Delivers 1~100% Dimming Range

Plano, TX – May 2, 2019 – Diodes Incorporated (Nasdaq: DIOD) today introduced the AL3353 LED/LCD 40V max input boost controller, applicable across a wide range of applications where a constant voltage or constant current are required to drive displays and backlights with a dimming ratio of 100:1. It is well suited for use as a backlight driver for LCD TVs, LCD monitors, and flat panel displays, as well as an LED driver for commercial lighting applications.

The AL3353 is a multipurpose boost controller featuring a wide input voltage of 9V to 40V, allowing it to easily adapt to a variety of common supply voltages, such as 12V, 24V, and 36V, without further configuration or loss of efficiency. The AL3353 also includes comprehensive and robust circuit protection based on proprietary technology.

Through the implementation of Diodes' dynamic linearity compensation technique, which uses an offset cancellation chopping circuit, the AL3353 maintains linearity across temperature and process variations. This patent-pending technology accepts a digital PWM input and converts to an internal analog signal to control the dimming level, which operates from 1% to 100% dimming range, or a 100:1 ratio. This is significantly wider than the dimming range offered by most boost drivers available today targeting this application space.

In addition to a wide input voltage range and excellent dimming capabilities, the AL3353 features extensive protection designed specifically for the target applications. This includes diode and inductor short protection, LED cathode short-to-GND protection, LED-open protection, and power MOSFET overcurrent protection. Other protection features are under-voltage lock-out, output overvoltage and over-temperature protection, and V_{OUT} -short protection.

The AL3353 is available in the SO-8 package. Further information is available at www.diodes.com.

About Diodes Incorporated

Diodes Incorporated (Nasdaq: DIOD), a Standard and Poor's SmallCap 600 and Russell 3000 Index company, is a leading global manufacturer and supplier of high-quality application specific standard products within the broad discrete, logic, analog and mixed-signal semiconductor markets. Diodes serves the consumer electronics, computing, communications, industrial, and automotive markets. Diodes' products include diodes, rectifiers, transistors, MOSFETs, protection devices, function-specific arrays, single gate logic, amplifiers and comparators, Hall-effect and temperature sensors, power management devices, including LED drivers, AC-DC converters and controllers, DC-DC switching and linear voltage regulators, and voltage references along with special function devices, such as USB power switches, load switches, voltage supervisors, and motor controllers. Diodes also has timing, connectivity,

switching, and signal integrity solutions for high-speed signals. Diodes' corporate headquarters and Americas' sales office are located in Plano, Texas and Milpitas, California. Design, marketing, and engineering centers are located in Plano; Milpitas; Taipei, Taiwan; Taoyuan City, Taiwan; Zhubei City, Taiwan; Manchester, England; and Neuhaus, Germany. Diodes' wafer fabrication facilities are located in Manchester and Greenock, UK, and Shanghai, China. Diodes has assembly and test facilities located in Shanghai, Jinan, Chengdu, and Yangzhou, China, as well as in Hong Kong, Neuhaus and Taipei. Additional engineering, sales, warehouse, and logistics offices are located in Taipei; Hong Kong; Manchester; Shanghai; Shenzhen, China; Seongnam-si, South Korea; and Munich, Germany, with support offices throughout the world.

Recent news releases, annual reports and SEC filings are available at the Company's website: <http://www.diodes.com>. Written requests may be sent directly to the Company, or they may be e-mailed to: diodes-fin@diodes.com.

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