



## Ultra-Low Quiescent Wide Input Voltage LDO from Diodes Incorporated Addresses Needs of 12V and 24V Automotive Systems

**Plano, Texas – March 23, 2023** – Diodes Incorporated (Diodes) (Nasdaq: DIOD) has introduced the [AP7387Q](#) low dropout (LDO) linear voltage regulator. Delivering a maximum output current of 150mA, this device has a wide input voltage of 5V to 60V, and a dropout voltage of 700mV (typical) at a 100mA output current. It provides engineering teams with a simple-to-implement point-of-load (PoL) solution for automotive audio, navigation, tail lights, transmission control units, and battery management systems.

The AP7387Q's quiescent current is just 2µA—lower than many competing devices. This is essential in systems that are permanently connected to a battery, helping to extend runtime. In addition, with a high-power supply rejection ratio (PSRR) of 70dB at 1kHz, the device is optimized for noise-sensitive functions. The LDO also exhibits a fast line/load transient response against rapid changes to the input voltage or load current.

Thanks to its wide input voltage, the AP7387Q meets the load dump specifications of 12V internal combustion engine (ICE) vehicles such as cars, 24V ICEs such as buses, coaches, and trucks.

The [AP7387Q](#) LDO from Diodes are AEC-Q100 Grade 1 qualified, manufactured in IATF 16949 certified facilities, and support PPAP documentation. In 1,000 piece quantities, the AP7387Q-XXY-13 (SOT89) is available at \$0.67 and the AP7387Q-XXFDCW-7 (U-DFN2020-6 (SWP) (Type UXC)) is available at \$0.80.

### About Diodes Incorporated

Diodes Incorporated (Nasdaq: DIOD), a Standard and Poor's SmallCap 600 and Russell 3000 Index company, delivers high-quality semiconductor products to the world's leading companies in the automotive, industrial, computing, consumer electronics, and communications markets. We leverage our expanded product portfolio of discrete, analog, and mixed-signal products and leading-edge packaging technology to meet customers' needs. Our broad range of application-specific solutions and solutions-focused sales, coupled with worldwide operations of 32 sites, including engineering, testing, manufacturing, and customer service, enables us to be a premier provider for high-volume, high-growth markets. For more information visit [www.diodes.com](http://www.diodes.com).

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