



Automotive-Compliant 500mA LDO from Diodes Incorporated Delivers Superior PSRR in a High-Power Density Footprint

Plano, Texas – November 17, 2021 – Diodes Incorporated (Nasdaq: DIOD) has introduced the [AP7347DQ](#) low dropout (LDO) voltage regulator, which is highly optimized for demanding noise-sensitive power-related automotive applications. This automotive-compliant high output accuracy LDO is AEC-Q100 Grade 1 qualified, manufactured in IATF 16949 certified facilities, and fully supports automotive production part approval processes (PPAPs). These qualities make it well-suited to design in to a range of key in-vehicle functions, including point-of-load (POL) applications in ADAS, automotive wireless communication systems, RF subsystems, and infotainment power sources.

A 75dB power supply rejection ratio (PSRR), combined with an output noise of just 60 μ Vrms, gives the AP7347DQ considerable performance advantages. It is available in 12 fixed output voltage variants with a $\pm 1\%$ voltage-output accuracy, which is maintained across its entire -40°C to 125°C operational temperature range. Its 1.7V to 5.5V wide input voltage range gives it the versatility to address numerous automotive application requirements, while its 60 μ A quiescent current mitigates standby power losses.

The AP7347DQ has an enable pin; a built-in active discharge function ensures that the system starts up in a known state if the device has been disabled. Overtemperature and short-circuit protection are integrated, incorporating a 180mA foldback current limit should a short circuit occur.

The [AP7347DQ](#) is available in SOT25 and high-power density sidewall plated W-DFN2020-6 (SWP) packages. It has a \$0.27 unit pricing in 1000 piece quantities.

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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 consumer electronics, computing, communications, industrial, and automotive 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 31 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.

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