



Product news

Diodes Incorporated Optimizes PNP Transistors for Automotive Matrix LED Lighting

Plano, Texas – July 23, 2020 Diodes Incorporated (Nasdaq: DIOD) today announced the availability of the automotive-compliant [ZXTP56060FDBQ](#) and [ZXTP56020FDBQ](#) dual PNP transistors. These new products provide OEMs with a highly efficient solution for controlling matrix LED light clusters.

The automotive industry is migrating to adaptive LED headlights and rapidly adopting dynamic turn signals based on LED technology. This move is creating demand for dense and highly power-optimized transistors for shunting LEDs in matrix lighting and sweeping indicator applications.

The ZXTP56060FDBQ and ZXTP56020FDBQ address this demand with an optimized solution for controlling LED strings. Fully AEC-Q101 qualified, with very low $V_{CE(SAT)}$, the devices offer 60V (ZXTP56060FDBQ) or 20V (ZXTP56020FDBQ) breakdown voltages while delivering a continuous collector current of 2A. The ZXTP56020FDBQ features a maximum $V_{CE(SAT)}$ of 200mV at an LED current of 700mA, which minimizes power dissipation and lowers operating temperature to improve lifetime and system reliability, while offering a maximum power dissipation of 2.47W to enable compact design.

[ZXTP56060FDBQ](#) and [ZXTP56020FDBQ](#) are manufactured in IATF 16949 certified facilities and are compatible with the Automotive Industry Action Group's Production Part Approval Process (PPAP). The devices are supplied in the compact DFN2020 package (2mm x 2mm x 0.6mm) priced at \$0.1949 each in 3000 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 28 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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