



High Current Rated Load Switches from Diodes Incorporated Provide Smart Power Delivery Solutions for Modern Digital ICs

Plano, Texas – May 28, 2024 – Diodes Incorporated (Nasdaq: DIOD) has announced the expansion of its highly successful [DML30xx](#) series smart load switches. The four new products, [DML3008LFDS](#), [DML3010ALFDS](#), [DML3011ALFDS](#), and [DML3012LDC](#), provide high-current (10.5A to 15A) power domain switching control for voltage rails from 0.5V to 20V. Through the array of embedded functions, these devices are highly effective at handling all aspects of power delivery to microcontrollers, graphic cards, ASICs, FPGAs, and memory chips. They are well-suited for power management purposes in servers, computing hardware, networking infrastructure, gateways, solid-state drives, notebooks, tablets, industrial equipment, hot-swappable devices, and peripheral ports.

Incorporating a chip-on-chip arrangement that sees the controller chip in each device stacked on top of a low $R_{DS(ON)}$ N-channel power MOSFET, these devices occupy an ultra-compact footprint to provide increased power density. Their large, underside heat pads maximize thermal efficiency to reduce operating temperature and improve reliability. Power consumption is minimized due to their $<150\mu\text{A}$ (typ.) on-state current and $0.1\mu\text{A}$ (typ.) standby mode.

The high degree of feature integration that these load switches offer minimizes additional circuitry requirements—achieving reduced component count, smaller PCB area, and accelerated time to market. To maintain system reliability and maximize uptime, a comprehensive choice of safeguards and monitoring features are available. These allow designers to select the optimum combination to suit their applications. These include short-circuit and overcurrent protection, undervoltage lockout, power good signal, and soft-start to limit inrush current to an acceptable level. Additionally, all devices provide quick discharge capabilities to ensure controlled rail power-down, and thermal shutdown protection.

The [DML3008LFDS](#), [DML3010ALFDS](#), and [DML3011ALFDS](#) are supplied in the V-DFN2020-8 (2mm x 2mm) packages, and are priced at \$0.75 each in 3,000 piece quantities. The [DML3012LDC](#) comes in the V-DFN3030-12 (3mm x 3mm) package, and is priced at \$1.07 each in 3,000 piece quantities.

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 including engineering, testing, manufacturing, and customer service, enable us to be a premier provider for high-volume, high-growth markets. For more information, visit www.diodes.com.

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