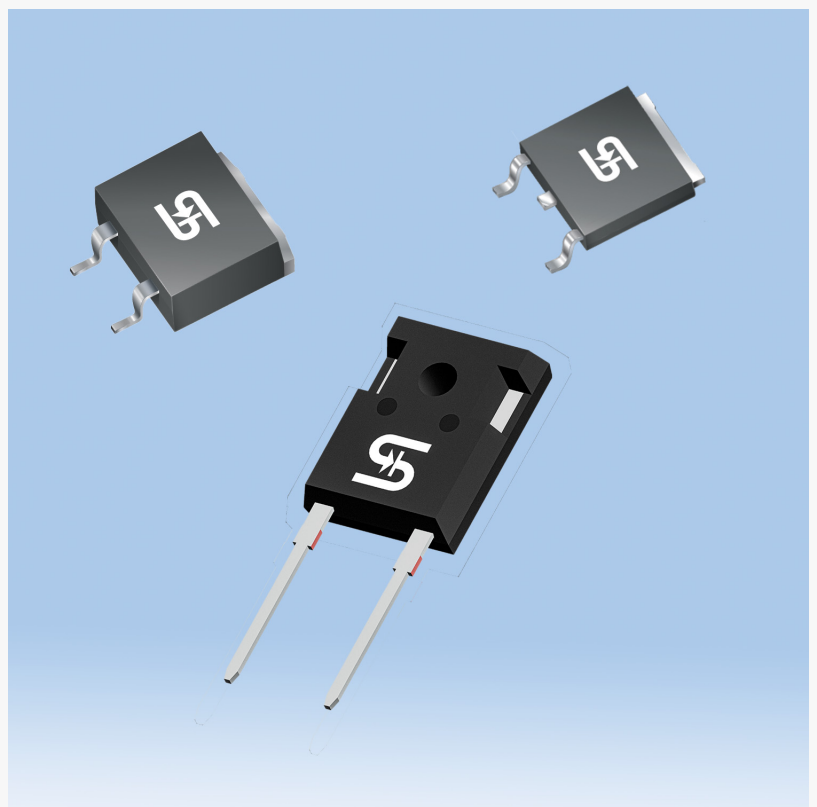


Taiwan Semi's New 1,200V Automotive-Grade Low-Loss Diodes Offered in Three Package Sizes

Taiwan Semi is introducing a new series of automotive-grade, 1200V PLA/PLD low-loss diodes offered in industry-standard packages

BREA, CA, UNITED STATES, October 30, 2025 /EINPresswire.com/ -- Taiwan Semiconductor, global supplier of discrete power electronics devices, LED drivers, analog ICs, TVS and ESD protection, introduces a new series of automotive-grade, low-loss diodes offered in industry-standard packages. The 1,200V PLA/PLD series, with ratings of 15A, 30A or 60A, all feature low forward voltage (1.3Vf max), low reverse leakage (<10 μ A at 25 degrees C) and high junction temperature (175C Tj Max). Available in three popular packages (ThinDPAK, D2PAK-D and TO-247BD), the new 1,200V diodes enable easy drop-in replacement to improve efficiency in existing designs.

Applications benefiting from the efficiencies provided by these new low-loss diodes include: three-phase AC/DC converters, server and computing power (including AI power) systems, EV charging stations, on-board battery chargers, Vienna rectifiers, totem pole and bridgeless topologies, inverters and UPS systems, and general-purpose rectification in high-power systems of various types. The 1,200V PLA/PLD series is offered in six models produced to stringent automotive-quality standards. Two models (PLAD15QH,



Available in three popular packages (ThinDPAK, D2PAK-D and TO-247BD)



Taiwan Semiconductor



Our new automotive-grade 1,200V diodes increase efficiency by dropping into existing applications using an industry standard pinout,”

Sam Wong

PLDS30QH) are fully AEC-Q qualified for automotive applications.

Part no	Package	Conf.	VRRM(V)	IF (A)	VF Max (V)
IFSM (A)	Tj Max(°C)	Automotive			
PLAD15QH	ThinDPAK	Single	1200	15	1.3
250	175	Yes			
PLDS30QH	D2PAK-D	Single	1200	30	1.3
400	175	Yes			
PLAD15Q	ThinDPAK	Single	1200	15	1.3

250	175	No						
PLDS30Q	D2PAK-D	Single	1200	30	1.3	400	175	No
PLAH30Q	TO-247BD	Single	1200	30	1.3	400	175	No
PLAH60Q	TO-247BD	Single	1200	60	1.3	600	175	No

“Our new automotive-grade 1,200V diodes increase efficiency by dropping into existing applications using an industry standard pinout,” said Sam Wang, vice president, TSC Products. “Their low loss also makes sure new designs and applications can take advantage of the lower power dissipation, including a wide range of power electronics applications where performance and reliability are critical.”

Available Now: Samples: In-stock (DigiKey and Mouser)

Lead Time: Production Quantities: 8-14 weeks (ARO)

Design resources include comprehensive datasheets, spice models, Foster and Cauer thermal models and CAD files (symbol, footprint, 3D model).

About Taiwan Semiconductor (TSC).

Recognized for more than 45 years for its core competence in discrete power rectifiers, Taiwan Semiconductor’s expanded product portfolio provides a complete solution from one source: including trench Schottky’s, MOSFETs, power transistors, LED driver ICs, analog ICs and ESD protection devices. A global enterprise with over 2,000 employees, TSC’s production facilities in China and Taiwan are fully compliant with current automotive and environmental standards such as IATF16949, ISO9001 and ISO14001. Taiwan Semiconductor products are used in a vast array of applications in the electronics industry including automotive, computer, consumer, industrial, telecom and photovoltaic. Through strategic expansion of innovative manufacturing capabilities and its focus on pioneering efficient semiconductor solutions, TSC is the right choice for a successful and lasting business relationship.

Kevin Parmenter

Taiwan Semiconductor

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