

1200V Low Loss Diodes

Taiwan Semiconductor’s 1200V low-loss diodes, rated from 15A to 60A, are offered in ThinDPAK, D2PAK-D, and TO-247BD packages. Featuring low forward voltage (VF) for reduced conduction losses, they support efficient power conversion in high-performance systems.

Designed for high-temperature operation up to $T_j = 175^{\circ}\text{C}$, these devices deliver superior thermal stability and reliability, minimizing heatsink requirements. SPICE models, thermal data, and 3D CAD files are available for simulation support.

Applications: Three-phase AC/DC converters, totem-pole bridgeless topologies, EV chargers, server and telecom power supplies, and other high-efficiency power systems.

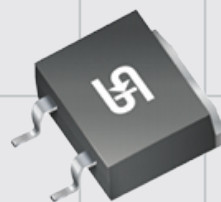


Official Website X LinkedIn

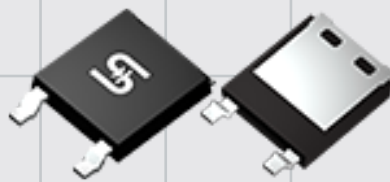
For more information: marketing@ts.com.tw

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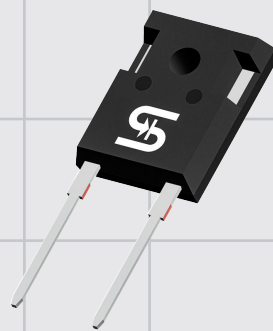
PACKAGE



D²PAK-D



ThinDPAK



TO-247BD

SPECIFICATION

$T_j \text{ Max. } (^{\circ}\text{C}) = 175$

Part number	Package	V _{RRM} (V)	I _F (A)	V _F (V) Max.	I _{FSM} (A)	Automotive
PLAD15QH	ThinDPAK	1200	15	1.3	250	YES
PLDS30QH	D ² PAK-D		20		400	YES
PLAD15Q	ThinDPAK		15		250	NO
PLDS30Q	D ² PAK-D		30		400	NO
PLAH30Q(H)	TO-247BD		30		400	YES
PLAH60Q(H)			60		600	YES

FEATURES



PLANAR
TECHNOLOGY



LOW LEAKAGE
CURRENT



LOW POWER LOSS
HIGH EFFICIENCY

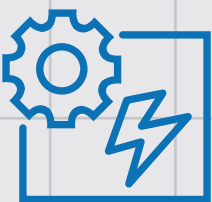


$T_j \text{ max, up to}$
175°C

APPLICATIONS



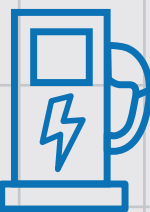
AC/DC
CONVERTER



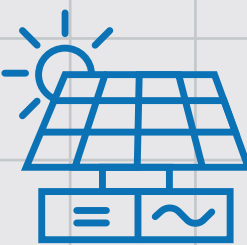
INDUSTRIAL
POWER SYSTEMS



ON-BOARD CHARGER



EV &
CHARGING
STATION



POWER
INVERTER



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