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CORRECTED: Taiwan Semi Offers New Family of AEC-Q 60V Dual Power MOSFETs in Wettable Flank PDFN56UD

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Content

[Taiwan Semiconductor](#), global supplier of discrete power electronics devices, LED drivers, analog ICs, TVSs and ESD protection devices, introduces a new family of automotive-grade power MOSFETs to its existing TQM Series. Available in a PDFN56UD, the new 60V dual n-channel devices support drop-in pin compatibility with other commonly used package types.

The devices' low-profile (5mm x 6mm) packaging with heat-spreader contacts, high drain current (I_D), and industry-leading low $R_{DS(ON)}$ provide excellent thermal management and increased power density. Additionally, their wettable flank connections are ideal for automated placement, help meet automotive board-mount and AEC-Q qualification testing, and facilitate high-yield manufacturability. TSC's 60V dual power PDFN56UD MOSFETs offer designers a high-performance option in a broad range of applications, including H-bridge and half-bridge rectifiers, motor/actuator controls and solenoid drives.

The 60V dual power PDFN56UD MOSFETs in the TQM Series are:

Part Number	B_{VDSS} (V)	$R_{DS(ON)}$ (m)	I_D (A)	Q_G (nC)
TQM130NH06DCR	60	13	40	16.2
TQM130NH06LDCR	60	13	40	8.1

With their dual MOSFET configuration, 60V PDFN56UD devices offer the added benefits of reduced PCB space and lower BOM costs. All are produced to meet AEC-Q standards, and documentation for the production part approval process (PPAP) can be provided.

“The PDFN56UD footprint compatibility of our TQM Series of 60V dual power MOSFETs makes them an easy drop-in alternative source for competitors' DFN8, LPAK56 and PowerFLAT packages,” said Sam Wang, vice president, TSC Products. “Their AEC-Q-grade quality is also advantageous in many non-automotive applications where high-reliability is required.”

Available Now:

- [Samples](#): In stock (DigiKey and Mouser)
- [Lead Time](#): Production Quantities: 6 weeks (ARO)

- Design resources: Include comprehensive datasheets, spice models and CAD files (symbol, footprint, 3D model)

Supporting Links:

https://services.taiwansemi.com/storage/resources/datasheet/TQM130NH06LDCR_B2608.pdf

https://services.taiwansemi.com/storage/resources/datasheet/TQM130NH06DCR_A2607.pdf

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About Us:

Heading : About Taiwan Semiconductor USA

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 diodes, 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.