

## Taiwan Semiconductor's Automotive Load Dump TVS Devices Offer Best-in-Class Specs

*AEC-Q101 qualified parts provide impulse power dissipation up to 6000W; high reliability devices feature 175C, max. Tj utilizing junction passivation-optimized technology; volume stock available world-wide*



Brea, CA.— March 26, 2020 — [Taiwan Semiconductor](#), a global supplier of discrete power electronics devices, LED drivers, analog ICs and ESD protection devices, announces the introduction of the TLD5S/6S/8S Series of AEC-Q101 qualified high power unidirectional transient voltage surge suppressors (TVS). The devices, offered with ratings of 3.6 KW, 4.6 KW and 6.6 KW, are ideally suited for critical load dump applications designed to protect onboard electronic devices from high voltage surges emanating from the alternator should the battery become disconnected.

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Offered in industry-standard DO-2018-AB packages, the three TLD Series are available with a total of 57 part numbers offering working standoff voltages from 10 to 43V to cover the full range of automotive battery voltages and industry-best clamping capability from 17.0 to 69.4V.

The TLD Series devices are fully qualified to AEC-Q101 standards, meet ISO7637-2 / ISO16750-2 surge specifications and IEC 61000-4-2 (Level: 4) / ISO 10605 (Level: L4) electrostatic discharge specifications. The devices in the series with applicable standoff voltages also meet Japan's JASO A-1 (14V) and JASO D-1 (27V) load dump requirements. All TLD Series devices are compliant with RoHS directive 2011/65/EU and in accordance to WEEE 2002/96/EC, are Halogen-free according to IEC 61249-2-21 and meet moisture sensitivity level 1, per J-STD-020. In addition, TSC offers custom testing to customers' specifications

"The TLD Series adds to the extensive product portfolio of AEC-Q parts offered by Taiwan Semiconductor," reported Sam Wang, Vice President, TSC Products. "Our strategically-located manufacturing operations and global distributor supply chain guarantee fast and reliable deliveries anywhere in the world. This is of particular benefit to our customers at this time."

[Click here](#) for more information and links to complete product specifications

**Price (Production Quantities):** TLD5S: \$1.65 / TLD6S: \$2.05 / TLD8S: \$2.30

**Lead Time:** In-stock

### About Taiwan Semiconductor (TSC).

Recognized for more than 40 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 2,000 over 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.

### Contacts:

Kevin Parmenter,  
Director, Applications Engineering  
[TSC America, Inc](#)  
415.271.0425  
[kevin.parmenter@tscus.com](mailto:kevin.parmenter@tscus.com)

Greg Evans, PE.  
Account Executive  
[WelComm, Inc.](#)  
858.633.1911  
[greg@welcomm.com](mailto:greg@welcomm.com)