

# Taiwan Semiconductor's New ESD Devices Target Wearables

*bidirectional proprietary clamping cells in ultra-small DFN0603 package provide ESD protection up to  $\pm 30\text{kV}$*

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*Sam Wang, vice president, TSC Products.*

global supplier of discrete power electronics devices, LED drivers, analog ICs and ESD protection devices, announces its new [TESD Series](#) of single-channel ESD clamping diodes offering size and performance specifications optimized for wearable applications. The new TESD devices' unique design features proprietary bidirectional clamping cells (for ESD protection up to  $\pm 30\text{kV}$ ) in an ultra-small DFN0603 package.

The devices in the new TESD Series are offered in versions with 5.0V and 3.3V (max.) operating voltages and provide protection in compliance with IEC61000-4-2 (ESD) to  $\pm 20\text{kV}$  (air/contact) and IEC61000-4-5 (lightning) to 4.5A (8/20 $\mu\text{s}$ ).

A second 3.3V model in the series increases these specs to  $\pm 30\text{kV}$  and 8.2A, respectively.

"Compared to handheld products, wearable products must meet more stringent package size requirements along with ESD standards – so our TESD series' DFN0603 package offers clear advantages," said Sam Wang, vice president, TSC Products. "Besides being the optimum choice for wearable applications, their ultra-small size combined with ultra-low capacitance make these protection devices beneficial in a range of other ESD-sensitive applications, including HDMI, display port and high-speed video I/O; USB 3.0 and 3.1; industrial I/O (RS485); SATA and eSATA; RAID, NAS and SAN systems."

[Click here for more information](#) and links to complete product specifications. Design resources include comprehensive datasheets and spice models for each component in the series.

Price (Production Quantities): From \$0.09 (depending on device and quantity)

Lead Time: Samples: In-stock

Production Quantities: 12 weeks (ARO)

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0603 Packaged ESD Device Optimized for Wearable Applications

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