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FOR IMMEDIATE RELEASE



[SP1053 Series TVS Diode Arrays](#)
[SP1054 Series TVS Diode Arrays](#)

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Unidirectional TVS Diode Arrays in Smallest Footprint Available Protect I/O and Power Ports from ESD

Market's first 01005-format TVS Diode Arrays in hermetically sealed DFN plastic packages

CHICAGO, March 28, 2018 — Littelfuse, Inc., the global leader in circuit protection, today introduced two series of AEC-Q101-qualified, unidirectional TVS Diode Arrays optimized to protect I/O and power ports against electrostatic discharges (ESDs). SP1053 and SP1054 Series TVS Diode Arrays (SPA® Diodes) integrate avalanche breakdown diodes fabricated using proprietary silicon avalanche technology to protect each pin. These devices offer the unique advantages of being unidirectional and hermetically sealed in compact, 01005-format plastic packages; both of these features are firsts in the TVS diode array market. These robust diodes can safely absorb repetitive ESD strikes at $\pm 8\text{kV}$ (for SP1053) or $\pm 30\text{kV}$ (for SP1054) without performance degradation. Additionally, each diode can safely withstand 1.0A (for SP1053) and 2.5A (for SP1054) surges at a very low clamping voltage.

Typical applications for SP1053 and SP1054 Series TVS Diode Arrays include mobile phones, smartphones, camcorders, portable medical devices, digital cameras, wearable technology, portable navigation components, tablets, point-of-sale terminals and identification modules.

“Unidirectional diodes like the SP1053 and SP1054 Series should always be the preferred solution for protecting I/O and power ports from ESD damage because the content on these lines is unipolar,” said Tim Micun, Business Development Manager, TVS Diode Arrays (SPA® Diodes) at Littelfuse. “Unlike other devices with this footprint, which are either bare silicon or bare silicon covered by an oxide, the

SP1053 and SP1054 Series' hermetically sealed plastic packages protect them against abrasion, temperature cycling and moisture.”

SP1053 and SP1054 Series TVS Diode Arrays offer these key benefits:

- The combination of plastic packaging and a compact, 01005 footprint is a market first for protection devices and prevents solder shorts between the terminals, abrasion and moisture intrusion that could interfere with ESD protection.
- These unidirectional TVS diode arrays have just half the dynamic resistance of bidirectional solutions, protecting sensitive ports faster and better.
- The ultra-small 01005 DFN hermetically sealed package offers a new choice to circuit designers who have been challenged by competing smaller-format end products.

Availability

SP1053 and SP1054 Series TVS Diode Arrays are available in DFN, 01005-format plastic packaging in tape and reel format in quantities of 20,000. Sample requests may be placed through authorized Littelfuse distributors worldwide. For a listing of Littelfuse distributors, please visit Littelfuse.com.

For More Information

Additional information is available on the [SP1053 Series TVS Diode Array product page](#) and [SP1054 Series TVS Diode Array product page](#). For technical questions, please contact: Tim Micun, Business Development Manager, TVS Diode Arrays (SPA® Diodes), tmicun@littelfuse.com.

About Littelfuse

Founded in 1927, Littelfuse is the world leader in circuit protection with growing global platforms in power control and sensing. The company serves customers in the electronics, automotive and industrial markets with technologies including fuses, semiconductors, polymers, ceramics, relays and sensors. Littelfuse has over 10,000 employees in more than 40 locations throughout the Americas, Europe and Asia. For more information, please visit Littelfuse.com.

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