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## FOR IMMEDIATE RELEASE

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[SP1333 Series TVS Diode Arrays](#)

## Hybrid Protection Module Guards Valuable Consumer Electronics from Sustained Overcurrents and Overvoltages

*Low capacitance solution in 0201 footprint extends breakdown voltage range from 3.3V to 36V*

**CHICAGO, January 7, 2019** — [Littelfuse, Inc.](http://Littelfuse.Inc) today introduced the first of a series of bidirectional TVS Diode Arrays (SPA<sup>®</sup> Diodes) designed to protect high-end consumer and wearable electronics from damaging ESD-generating events. The SP1333-01UTG, the first TVS Diode Array in the SP1333 Series, with a breakdown voltage 3.3V, incorporates back-to-back diodes fabricated using a proprietary silicon avalanche technology. This back-to-back configuration provides symmetrical data line protection from ESDs up to  $\pm 30$ kV, safely absorbing repetitive ESD strikes without performance degradation. Low clamping voltages allow the SP1333 Series to tolerate surges  $>5$ A, for extended operating life for the electronics they protect.

Typical applications for SP1333 Series TVS Diode Arrays include:

- Mobile / smartphones,
- portable medical devices,
- MP3/PMP devices,
- portable navigation devices,
- small size panels
- tablets, and
- point of sale terminals.

“The SP1333 Series completes our portfolio of TVS Diode Arrays in compact 0201 packages, which now covers the full breakdown voltage range from 3.3V to 36V,” said Tim Micun, Business Development Manager, TVS Diode Arrays (SPA Diodes) at Littelfuse. “This addition to the line simplifies the designer’s job by eliminating the need to source devices for this breakdown voltage from another vendor.”

SP1333 Series TVS Diode Arrays offer these key benefits:

- Low capacitance (just 10pF per I/O) helps preserve signal integrity and minimizes data losses.
- Very low (<50nA) parasitic leakage is optimized to extend operating life.
- A combination of high (>5A) surge tolerance and  $\pm 30\text{kV}$  ESD protection for more robust protection against electrical threats.

### **Availability**

SP1333 Series TVS Diode Arrays are available in a surface-mount 0201DFN package in tape & reel format in quantities of 15,000. Sample requests may be placed through authorized Littelfuse distributors worldwide. For a listing of Littelfuse distributors, please visit [Littelfuse.com](http://Littelfuse.com).

### **For More Information**

Additional information is available on the [SP1333 Series TVS Diode Arrays product page](#). For technical questions, please contact: Tim Micun, Business Development Manager, TVS Diode Arrays (SPA Diodes), [tmicun@littelfuse.com](mailto:tmicun@littelfuse.com).

### **About Littelfuse**

Littelfuse (NASDAQ: LFUS) is a global manufacturer of leading technologies in circuit protection, power control and sensing. Sold in over 150 countries, our products are found in automotive and commercial vehicles, industrial applications, data and telecommunications, medical devices, consumer electronics and appliances. Our 12,000 worldwide associates partner with customers to design, manufacture and deliver innovative, high-quality solutions, for a safer, greener and increasingly connected world – everywhere, every day. Learn more at [Littelfuse.com](http://Littelfuse.com).

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