

Littelfuse Inc.  
8755 West Higgins Road, Suite 500  
Chicago, Illinois 60631  
p: (773) 628-1000 f: (773) 628-0802  
[www.littelfuse.com](http://www.littelfuse.com)

## FOR IMMEDIATE RELEASE



[SP3422-04UTG Series TVS Diode Array](#)

**Media Contact:**  
Rhonda Stratton  
Global Marketing Communications Manager  
Electronics Products, Littelfuse, Inc.  
773-628-0644  
[rstratton@littelfuse.com](mailto:rstratton@littelfuse.com)  
[twitter.com/littelfuse](https://twitter.com/littelfuse)

## Low Capacitance TVS Diode Array from Littelfuse Is One-Third the Size of Typical Four-Line Arrays

*Small footprint makes it ideal for use in a wide range of mobile devices*

**CHICAGO, November 13, 2017** — Littelfuse, Inc., the global leader in circuit protection, today introduced a new series of small-footprint TVS Diode Arrays (SPA® Diodes) that are optimized for protecting high-speed signal pins. The SP3422-04UTG Series 0.2pF 22kV TVS Diode Array integrates four channels of ultra-low capacitance rail-to-rail diodes and an additional zener diode to provide protection for electronic equipment that may be exposed to destructive electrostatic discharges (ESD). This robust component can safely absorb repetitive ESD strikes above the maximum level specified in the IEC 61000-4-2 international standard without performance degradation.

Typical applications for SP3422-04UTG Series TVS Diode Arrays include:

- ESD protection for V-by-One®.
- USB3.0, USB2.0, and IEEE 1394 interfaces.
- MIPI camera or display interfaces.
- Embedded display ports.
- Serial bus interfaces such as IEEE 1394.
- Flat panel displays.
- LCD/LED televisions.
- Smartphones, and other mobile computing devices.

“The SP3422-04UTG Series is just one-third the size of a typical four-line array, which permits straight-through routing, eliminating signal integrity issues with fan outs,” said Tim Micun, business development manager/TVS Diode Arrays at Littelfuse. “Because it combines a small footprint with the lowest loading capacitance available in this format, it’s ideal for use in mobile devices, where board space is at a premium.”

SP3422-04UTG Series TVS Diode Arrays offer these key benefits:

- Four lines of ESD protection in an outline smaller than a conventional SOD-882 package offers greater board space savings than discrete or dual-channel implementations.
- Straight-through routing does not degrade signal integrity and eliminates the requirement to “fan out” to make connection to the PCB pins.
- Low parasitic capacitance (nominally 0.2pF) helps to maintain signal integrity, and ideal for high-speed USB 3.0, MIPI, and DisplayPort interfaces.
- This automotive-grade, Moisture Sensitivity Level 1 (MSL-1) product is capable of performing across a broad temperature range in extremely harsh environments without performance degradation.

#### **Availability**

SP3422-04UTG Series TVS Diode Arrays are available in tape and reel format in quantities of 3,000. 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 [SP3422-04UTG Series TVS Diode Array product page](#). For technical questions, please contact: Tim Micun, business development manager/TVS Diode Arrays, [tmicun@littelfuse.com](mailto: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](http://Littelfuse.com).

LFUS-P

###