TVS diode array offers greater protection from surges, ESD than similar components

Littelfuse has introduced a new series of two-channel, general-purpose TVS Diode Arrays (SPA Diodes) optimized to help circuit designers protect sensitive equipment from damage due to electrostatic discharge (ESD), electrical fast transients (EFT), and lightning-induced surges. SM Series TVS Diode Arrays are available in five voltage options: 5V, 12V, 15V, 24V, 36V. All voltage options provide very low dynamic resistance for clamping performance superior to similar components. This ensures optimal performance to protect today’s sensitive electronics. SM Series TVS Diode Arrays can absorb repetitive ESD strikes above the maximum level specified in international standards without performance degradation and safely dissipate up to 24A of induced surge current. They provide robust protection against electrical threats to datacom ports like RS-232, RS-485, RS-422, RS-423, etc., which are commonly used in automation equipment, diagnostic devices, security and alarm systems, printers, test equipment, etc.

Benefits

- Greatly reduces clamping voltages, ensuring modern ICs survive industry-

defined electrical threats, such as ESD and lightning-induced surges
- Offers 25 percent higher power handling capability than similar solutions to provide more design margin to electrical threats as defined by industry standards

Availability
The SM Series is available in SOT23-3 packaging in reels of 3,000 each. Samples are available now; sample requests can be placed through authorized Littelfuse distributors worldwide. For a listing of Littelfuse distributors, please visit littelfuse.com [1].

Source URL (retrieved on *09/14/2014 - 11:27pm*):
http://www.ecnmag.com/product-releases/2014/01/tvs-diode-array-offers-greater-protection-surges-esd-similar-components

Links:
[1] http://www.littelfuse.com