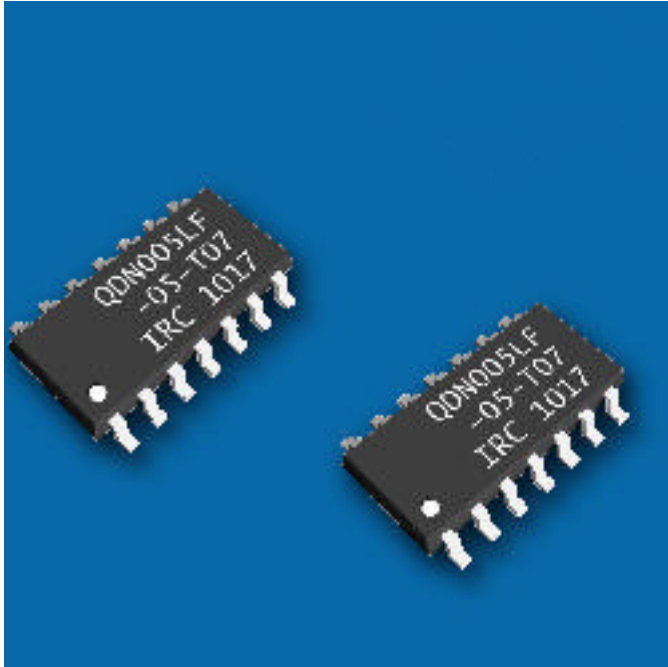


Diode Arrays Deliver Transient Voltage Suppression



Providing design engineers with a compact means of protecting one to eight circuit traces against electrostatic discharge (ESD), lightning, and other electrical fast transient (EFT) events, TT electronics IRC has developed a comprehensive series of IEC-compatible TVS diode arrays in 8-, 14-, or 16-pin SOIC-N and SOT-23 surface mount packages. Available in unidirectional and bidirectional versions, the diode arrays are capable of ESD protection of <40 kV and carry a peak pulse power rating of 500W ($t_P = 8/20\mu s$).

“The introduction of these TVS diode arrays gives communications design engineers a convenient method of protecting multiple circuit traces while maintaining signal integrity,” explained Dr. Debasis Roy, director of IRC’s thin film business unit. “Our diode technology provides fast response times with low clamping and operating voltages; and they are available in unidirectional or bidirectional circuit configurations for protection of individual lines or up to eight circuit traces.”

IRC’s QDN Series TVS diode arrays provide protection to IEC standards for a variety of transient voltage events, including: IEC 61000-4-2 – ESD protection to 15kV (air)/8kV (contact); IEC 61000-4-4 – EFT protection to 40A @ 5/50ns; and IEC 61000-4-5 – lightning/surge protection to 12A @ 8/20 μs for Level 2 (line-to-ground) and Level 3 (line-to-line).

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