

AQ4337-01ETG Series Automotive Grade TVS Diode Arrays

0.25 pF, 7 A, Low Clamping for Protecting High-Speed Signal Pins

Problem/Solution

The AQ4337-01ETG provides ultra-low capacitance, bidirectional, and a high level of protection for electronic equipment that may experience destructive electrostatic discharges (ESD). The 0.25pF capacitance helps ensure excellent signal integrity on the most challenging consumer electronics interfaces, such as High-Definition Multimedia Interface (HDMI) and DisplayPort interfaces, Thunderbolt, and USB 3.1 Gen 1.

Technical resources *(Click on below icons to learn more)*

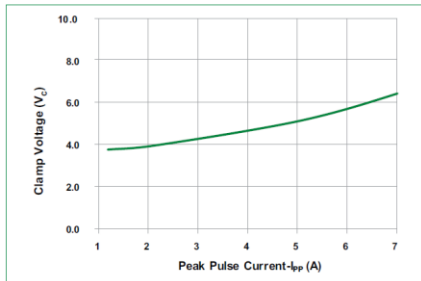


Series Page

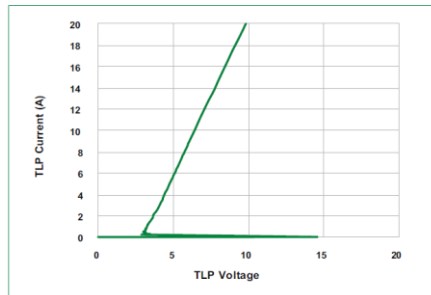


Datasheet

Clamping Voltage vs I_{PP}

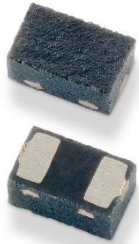


Positive Transmission Line Pulsing (TLP) Plot



Features

- Surge tolerance: IEC 61000-4-5 2nd edition, 7 A ($t_P=8/20\mu s$)
- ESD, IEC 61000-4-2, ± 15 kV contact/air
- ESD, ISO 10605, 330 pF 330 Ω , ± 15 kV contact/air
- Ultra low capacitance: 0.25 pF (Typ @ $V_R=0V$)
- Low leakage current: 0.1 μA (MAX) at 5 V
- Small SOD882 packaging helps save board space



Benefits

- Compliant with numerous IEC standards for ESD suppression and lightning surge protection
- AEC-Q101 Qualified and PPAP capable
- Safely dissipates high surge events



Markets/Applications

- Automotive ADAS
- Automotive DisplayPort
- 2.5/5G/10G Ethernet
- GMSL
- GVIF
- LVDS

