

AQ1205-01FTG Series Automotive Grade TVS Diode Arrays

7A, 7pF, in SOD323 for Protecting General IO

Problem/Solution

The AQ1205-01FTG bidirectional TVS diode arrays utilize a proprietary silicon avalanche technology to protect electronic equipment against high electrostatic discharge (ESD) levels. These TVS diode arrays safely absorb repetitive ESD strikes of ± 30 kV (contact and air discharge as defined in IEC 61000-4-2) without any performance degradation. In addition, it can safely dissipate 7 A 8/20 μ s surge events (see IEC 61000-4-5, 2nd Edition).

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

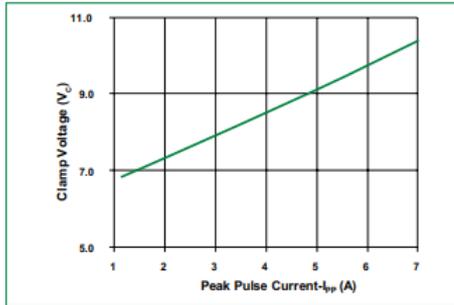


Series Page

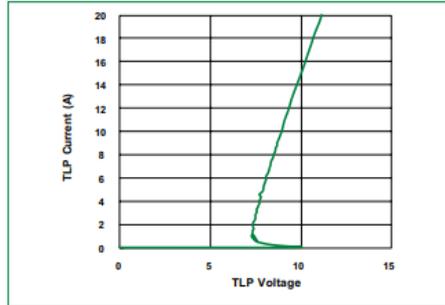


Datasheet

Clamping Voltage vs I_{pp}



Positive Transmission Line Pulsing (TLP) Plot



Benefits

- Safely dissipates high surge events
- Compliant with numerous IEC standards for ESD suppression and lightning surge protection
- AEC-Q101 Qualified and PPAP capable
- Moisture Sensitivity Level (MSL-1)



Features

- Reverse standoff voltage: 5 V
- Maximum surge tolerance: 7 A 8/20 μ s (IEC 61000-4-5 2nd edition)
- ESD strikes: ± 30 kV contact/air (IEC 61000-4-2)
- ESD: 330 pF 330 Ω , ± 30 kV contact/air (ISO 10605)
- EFT: 40 A, 5/50 ns (IEC 61000-4-4)

Markets/Applications

- Automotive
- ADAS Control Units
- Body Control Units
- Electronic Control Units
- Lightning Control (DALI)
- Battery Management System



Expertise Applied | Answers Delivered