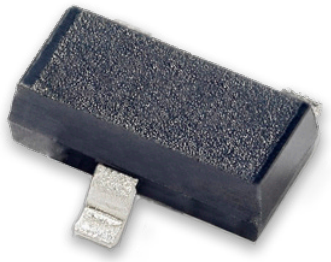
Littelfuse
Expertise Applied | Answers Delivered

Guranteed Reliability

in Demanding Automotive Environments



PPAP Capable, AEC-Q101 Qualified Diode Arrays for CAN Bus and LIN Bus Protection

Is designed to protect automotive Controller Area Network (CAN) lines and can safely withstand 3A surge across very low clamping voltages

Excellent clamping voltages, nominally 36V, and ultra-low dynamic resistance. PPAP capable and AEC-Q101 qualified, able to withstand the harsh environments presented by automotive or industrial.

Target Application:

- Drive-by-wire (CAN BUS) lines.
- Engine control modules.
- Anti-lock brakes.
- Air bag and other safety circuits.
- Electronic control units.
- Body control units.
- ADAS control units.
- Power train control units.
- Lightning Control (DALI)

Automotive Qualified Diode Arrays for CAN Bus and LIN Bus Protection

Features:

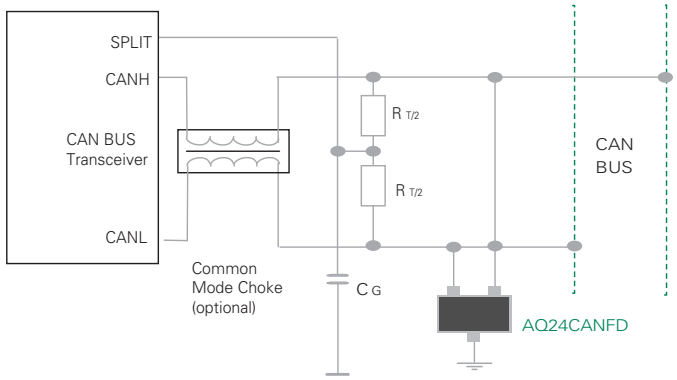
- Low capacitance (11.5 pF typ.)
- Low dynamic resistance (0.5Ω R_{DYN})
- PPAP-capable and AEC-Q101 qualified

Benefits:

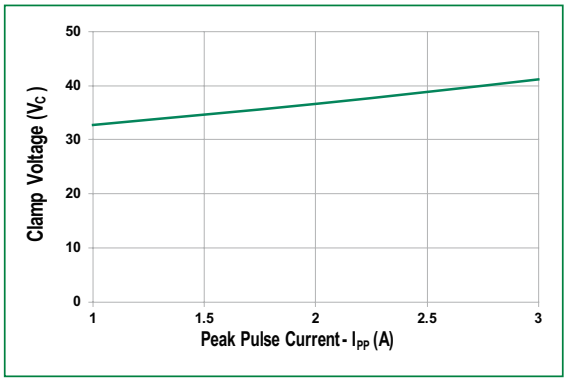
- Helps preserve signal integrity and minimize data loss.
- 10 percent reduction in clamping voltage when compared to similar market solutions for superior clamping performance.
- Clearly defines product flow from wafer creation to back-end processes ensures their provenance

PPAP Capable

The PPAP-capable device provides enhanced performance verification across a wider temperature range than most commercial products can offer and the clearly defined product flow from wafer creation through packaging, testing, and tape and reel.



CAN BUS Application Diagrm



Clamping Voltage vs. Ipp






Ordering Number	Ipp (A)	Reverse Breakdown Voltage (V)	Clamping Voltage (V)	Dynamic Resistance (Ω)	V_{ESD} Contact (kV)	Diode Capacitance (pF)	Package	AEC-Q101 Qualified
AQ24CANFD-02HTG	3.0	28 (Typ)	38.7(Typ)	0.5	±21	11.5	SOT23-3	Yes