



# INTERFACE APP NOTE

# CAN-Bus Protection



**SOT-23 PACKAGE**

## OBJECTIVE

The CAN-Bus is a serial bus with a message-based protocol designed specifically for automotive applications as well as industrial automation and medical equipment applications. CAN-bus has bit rates up to 1Mbit at network lengths below 40 meters.

## BENEFIT

The integrated TVS Diode solution is designed to protect the interface against high energy surges originating from switching and high voltage transients. The PAM1CAN is designed to protect both datalines.

## COMPLIANCE

- IEC 61000-4-2 ±8kV Contact, ±15kV Air Discharge
- IEC 61000-4-4 EFT 40A, 5/50ns
- IEC 61000-4-5 Surge Secondary Lightning, 3A @ 8/20µs
- AEC-Q101 Compliant

## SOLUTION

- 1 x PAM1CAN in SOT-23 Package
- Stand-Off Voltage  $V_{WM}$ : 24 Volts
- Breakdown Voltage  $B_{V_{MIN}}$ : 25.4 Volts
- $V_C @ I_P$ : 70V @ 3A
- Leakage Current  $I_R$ : 0.05µA
- Max. Capacitance: 17pF

## ALTERNATE RECOMMENDATIONS

- 1 x PAM2CAN
- 2 x PAM02SD2324C

