


**SOD-323 PACKAGE**
**OBJECTIVE**

The LIN Bus is a serial network protocol used for communication between components in vehicles - single wire communications up to 19.2 kbits/s @ 40 meter bus length. (LIN Bus specification, v 2.2, the speed is up to 20 kbits/s). LIN Bus is a broadcast serial network comprising of 16 nodes (one master and 15 slaves). This type of bus requires protect against ESD and short circuits.

**BENEFIT**

The integrated TVS Diode solution is designed to protect the interface against surge events by using one device (PAM1LIN) to protect the Bus.

**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, 24A @ 8/20µs
- AEC-Q101 Compliant

**SOLUTION**

- 1 x PAM1LIN in SOD-323 Package
- Stand-Off Voltage  $V_{WM}$ : 15 & 24 Volts
- Breakdown Voltage  $B_{V_{MIN}}$ : 17.2 & 25.5 Volts
- $V_C @ I_p$ : 44V @ 5A & 70V @ 3A
- Leakage Current  $I_R$ : 0.001µA
- Max. Capacitance: 17pF

**ALTERNATE RECOMMENDATIONS**

- 1 x PAM02SD2315C
- 1 x PAM02SD2324C

