


DO-218AB
OBJECTIVE

The PAM8S48A is a high power transient voltage suppressor designed to provide protection against long duration switching transient threats. This device is suitable for 48 Volt automotive system applications. The PAM8S48A complies with ISO 21780:2020 Load Dump standard.

BENEFIT

The TVS Diode solution is designed to protect the interface against surge events by using one device to protect 48 V DC power distribution systems in automotive applications.

COMPLIANCE

- IEC 61000-4-2 ±8kV Contact, ±15kV Air Discharge
- IEC 61000-4-4 EFT 40A, 5/50ns
- IEEE C62.41 Compliance 10/1000µs, 77.4A
- ISO 21780:2020 Load Dump Compliance

SOLUTION

- 1 x PAM8S48A
- Stand-Off Voltage V_{WM} : 48V
- Breakdown Voltage $B_{V_{MIN}}$: 53.3V
- $V_C @ I_P$: 85.2V @ 77.4A
- Leakage Current I_R : 10µA

ALTERNATE RECOMMENDATIONS

- 1 x SM8S24A

HEV 48V System Protection
