

ESD7205

Low Capacitance ESD Protection Diodes for High Speed Data Lines

Product Overview

For complete documentation, see the data sheet.

The ESD7205 is designed to protect high speed data lines from ESD. Ultra-low capacitance and low ESD clamping voltage make this device an ideal solution for protecting voltage sensitive high speed data lines. The small form factor, flow-through style package allows for easy PCB layout and matched trace lengths necessary to maintain consistent impedance between high speed differential lines.

Features

- 0.40pF Typical, I/O to GND
- +/-25kV ESD Survivability
- Low ESD Clamping Voltage (12V Typical, +16A TLP, I/O to GND)

Benefits

- Supports data rates up to 6Gb/s
- Robust protection for IEC 61000-4-2 and ISO 10605 ESD
- High level of system level ESD protection

Applications

- 100BASE-T1/OPEN Alliance BroadR-Reach Automotive Ethernet
- LVDS
- USB 2.0/3.0
- 10/100/1000
10/100/1000BASE-T Ethernet

End Products

- Automotive Camera Modules
- In-vehicle Radio Head Unit (USB)

Part Electrical Specifications

Product	Pricing (\$/Unit)	Compliance	Status	Interface	Number of Lines	Direction	C Max (pF)	V _(BR) Min (V)	V _{RWM} Max (V)	I _R Max (µA)	P _{PK} Max (W)	Package Type
ESD7205DT5G	0.1193		Active		2	Unidirectional	0.55	5.2	5	1	-	SOT-723-3
ESD7205WTT1G	0.1193		Active		2	Unidirectional	0.85	5.2	5	1	-	SC-70-3 / SOT-323-3
SZESD7205DT5G	0.1193		Active		2	Unidirectional	0.55	5.2	5	1	-	SOT-723-3
SZESD7205WTT1G	0.1193		Active		2	Unidirectional	0.85	5.2	5	1	-	SC-70-3 / SOT-323-3