

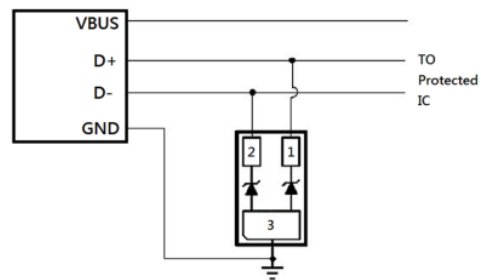
TESDH5V0U04P2Q1

UNI-DIRECTIONAL ULTRA LOW CAPACITANCE ESD PROTECTION DIODE

The [TESDH5V0U04P2Q1](#) is an ultra-low capacitance ESD protection diode which includes two uni-directional ESD rated clamping device to protect high speed data interfaces. This will protect sensitive electronic components connected to data and -or transmission lines from over-stress caused by ESD (Electrostatic Discharge).

[TESDH5V0U04P2Q1](#) is a unique design which includes proprietary clamping device in a small package. During transient conditions, the proprietary clamping devices prevent over-voltage on the control/data/power lines, protecting any downstream components.

The [TESDH5V0U04P2Q1](#) will provide ESD protection up to $\pm 20\text{kV}$ (contact and air discharge) according to IEC61000-4-2 and withstand peak pulse current up to 4A (8/20 μs) according to IEC61000-4-5.



KEY FEATURES & ADVANTAGES:

- ESD Protection for 2 high-speed I/O channels
- Provides ESD protection for each channel to IEC 61000-4-2 (ESD) $\pm 20\text{kV}$ (air), $\pm 20\text{kV}$ (contact) IEC 61000-4-5 (Lightning) 4A (8/20 μs)
- Low clamping voltage: $V_{CL} = 22.2\text{V}$ @ $I_{TP} = 16\text{A}$
- Ultra-low capacitance: 0.65pF
- Ultra-small package DFN1006-3L
- Fast turn-on and Low clamping voltage
- RoHS Compliant
- Halogen-Free according to IEC 61249-2-21
- Moisture sensitivity level: level 1, per J-STD-020

APPLICATIONS:

- IEEE 1394 Firewire interfaces
- PCI Express I/O
- USB 2.0 and 3.0 interfaces
- SATA and eSATA
- HDMI 1.3, 1.4 and 2.0
- Portable Electronics and Notebooks
- Industrial Interfaces i.e., RS485

ORDERING INFORMATION:

Ordering Part Number	Outline [Package]	Reel [PCS]	Reel Size [Inch]	Inner Box [PCS]	Carton [PCS]	Carton Size [PCS]	Gross Weight [Kg/ Carton]
TESDH5V0U04P2Q1 RNG	DN1006-3L	10,000	7"	60,000	360,000	385x270x217	4.063

For pricing and more information, please contact TSC sales or authorized distributors.