

## ESD Suppressor Diode TVS Bi-Dir 3.3V 13Vc Automotive 8-Pin UDFN T/R



Images are for reference only

[Inquiry](#)

**Manufacturer:** [Littelfuse Inc](#)

**Package/Case:** DFN

**Product Type:** Thyristors

**RoHS:** RoHS Compliant/Lead free 

**Lifecycle:** Active

### General Description

The SP3312T integrates 4 channels (2 differential pair) of low capacitance diodes to protect sensitive I/O pins against lightning induced surge events and ESD. This robust device can safely absorb up to 15A per IEC61000-4-5 ( $t_p=8/20\mu s$ ) without performance degradation and a minimum  $\pm 30kV$  ESD per IEC61000-4-2 international standard. The low loading capacitance makes the SP3312T ideal for protecting high-speed signal pins.

### Key Features

ESD IEC61000-4-2,  $\pm 30kV$  contact,  $\pm 30kV$  air

EFT, IEC61000-4-4, 40A (5/50ns)

Lightning, IEC61000-4-5, 15A ( $t_p=8/20\mu s$ )

Low capacitance of 1.3pF (TYP) per I/O

Low leakage current of 0.01 $\mu A$  (TYP) at 3.3V

Low variation in capacitance vs. bias voltage: 0.3pF Typical ( $V_R=0$  to 2.5V)

### Application

10/100/1000 Ethernet

Integrated magnetics/RJ45 connectors

LAN/WAN Equipment

Security Cameras

Industrial Controls

Notebook & Desktop Computers



## Recommended For You

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### SP3010-04UTG

Littelfuse Inc  
UDFN-10

### SP0504SHTG

Littelfuse Inc  
SOT23-6

### SP724AHTG

Littelfuse Inc  
SOT23-6

### SP0504BAHTG

Littelfuse Inc  
SOT23-5

### SP03-3.3BTG

Littelfuse Inc  
SOP8

### SP3042-01WTG

Littelfuse Inc  
SMD0402

### SP3222-02ETG

Littelfuse Inc  
DFN1006-3

### SP720APP

Littelfuse Inc  
DIP16

### SP3003-02UTG

Littelfuse Inc  
QFN

### SP723ABG

Littelfuse Inc  
SOP8

### SPHV15-01ETG-C

Littelfuse Inc  
SMD

### SP0502BAHTG

Littelfuse Inc  
SOT-23

### SP721APP

Littelfuse Inc  
PDIP-8

### SP1103C-01UTG

Littelfuse Inc  
DFN1610

### SP4060-08ATG

Littelfuse Inc  
MSOP10