

Surface Mount Polymeric ESD Suppressor

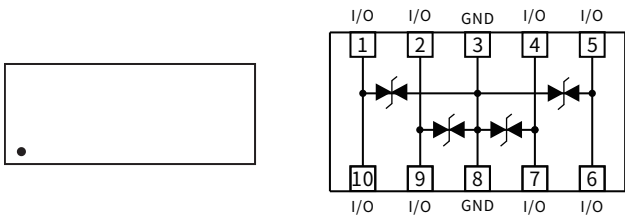
Features

- Low leakage current
- Fast response time
- 0402 surface mount package
- IEC 61000-4-2 (ESD Air): ±15kV
- IEC 61000-4-2 (ESD Contact): ±8kV

Applications

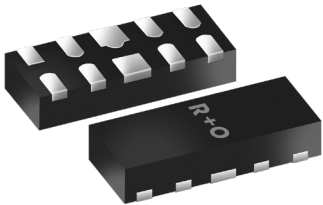
- USB 3.0/3.1
- HDMI 1.3/1.4/2.0
- RF Antenna
- SATA and eSATA interface
- Smart Phone/Mobile Internet

Function Diagram

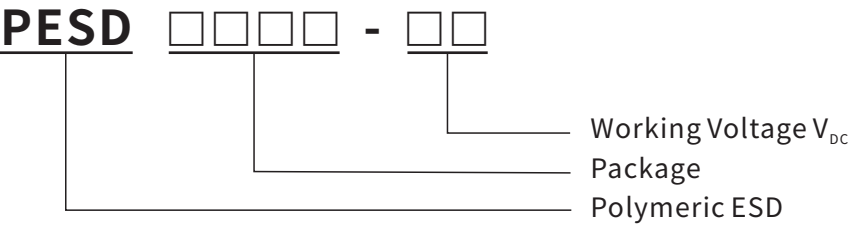


Reverse Working Voltage  
5V Max.  
Ultra Low capacitance  
0.05pF(Typ)

DFN2510-10L



Part Number Code



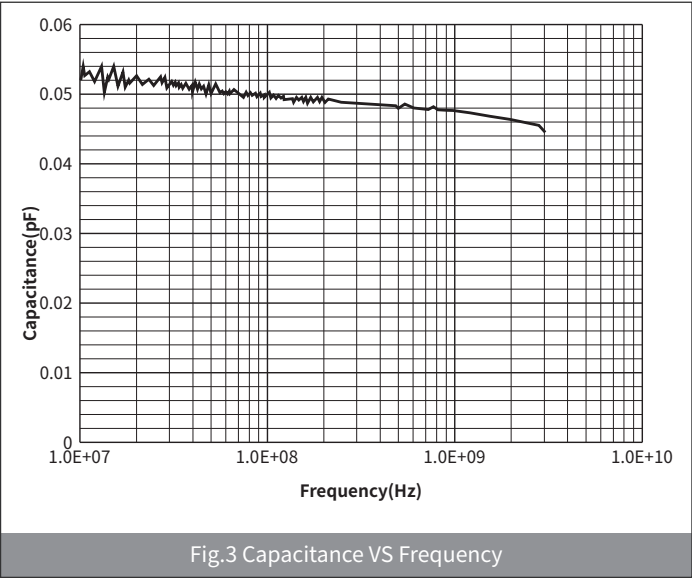
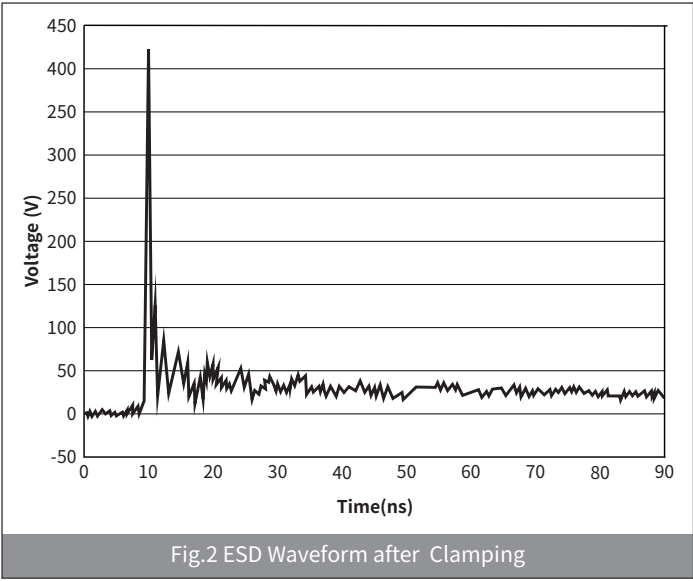
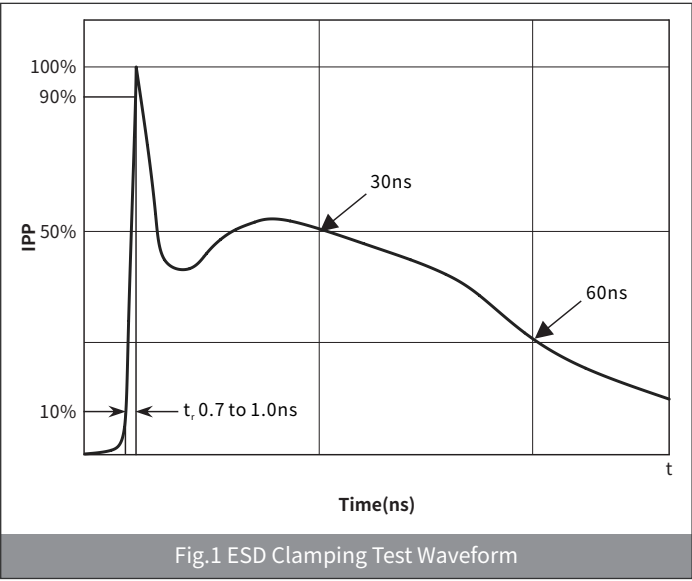
Maximum Ratings (Ta=25°C Unless otherwise specified)

| SYMBOL           | PARAMETER                           | CONDITIONS                      | VALUE       | UNIT |
|------------------|-------------------------------------|---------------------------------|-------------|------|
| V <sub>ESD</sub> | Electrostatic Discharge Voltage     | ESD per IEC 61000-4-2( Air )    | ±15         | KV   |
|                  |                                     | ESD per IEC 61000-4-2( Contact) | ±8          | KV   |
| T <sub>J</sub>   | Operating JunctionTemperature Range | —                               | -55 to +125 | °C   |
| T <sub>STG</sub> | Operating JunctionTemperature Range | —                               | -40 to +85  | °C   |

● Electrical Characteristics (Ta=25°C Unless otherwise specified)

| PARAMETER                    | SYMBOL          | CONDITION                           | Min | Typ  | Max | UNIT |
|------------------------------|-----------------|-------------------------------------|-----|------|-----|------|
| Continuous Operating Voltage | V <sub>DC</sub> | T <sub>a</sub> =25°C                | —   | —    | 5.0 | V    |
| Trigger Voltage              | V <sub>T</sub>  | IEC61000-4-2 8kV contact discharge  | —   | 450  | —   | V    |
| Reverse Leakage Current      | I <sub>R</sub>  | DC 5V shall be applied on component | —   | —    | 10  | nA   |
| Clamping Voltage             | V <sub>C</sub>  | IEC61000-4-2 8kV contact discharge  | —   | 40   | —   | V    |
| Capacitance                  | C <sub>J</sub>  | Measured at 10MHz                   | —   | 0.05 | —   | pF   |

● Ratings And Characteristics Curves (Ta=25°C Unless otherwise specified)



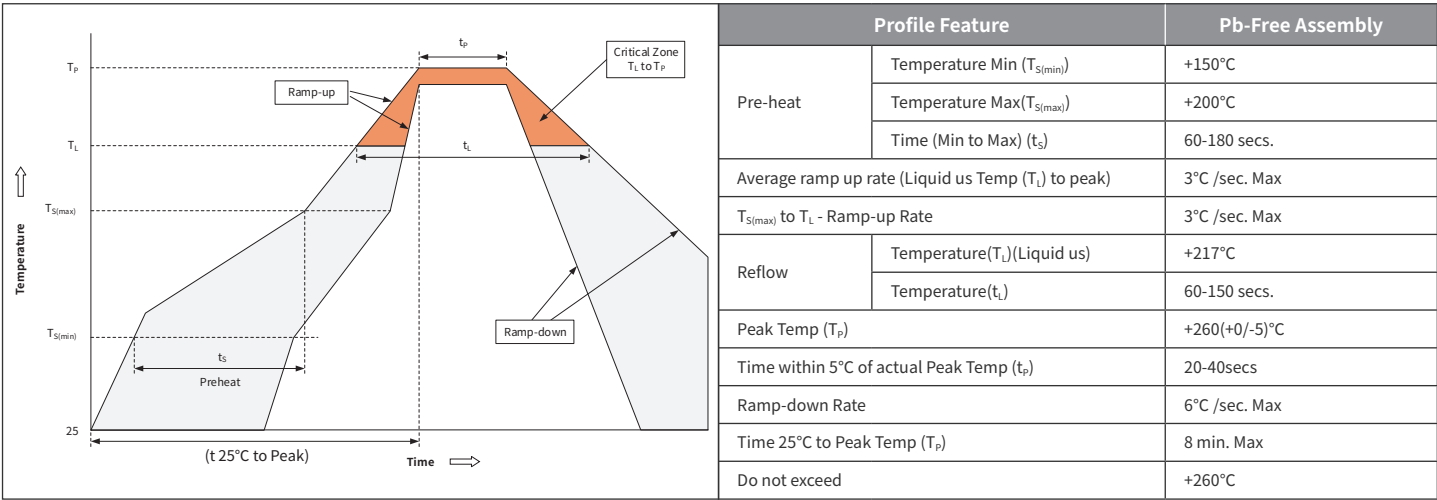
# PESD2510-05

Bi-directional 5V Ultra Low Capacitance ESD

## Ordering Information

| PREFERED P/N | PACKAGE     | SIZE(mm)       | DELIVERY MODE | MPQ(PCS) |
|--------------|-------------|----------------|---------------|----------|
| PESD2510-05  | DFN2510-10L | 2.50×1.00×0.50 | 7" REEL       | 3,000    |

## Recommended Soldering Conditions



## Package Outline Dimensions (0402 package)

