

Discription

The HSTN061050BL15 protects sensitive semiconductor components from damage or upset due to electrostatic discharge (ESD) and other voltage induced transient events. Excellent clamping capability, low leakage, low capacitance, and fast response time provide best in class protection on designs that are exposed to ESD.

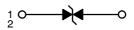
It gives designer the flexibility to protect one bi-directional line in applications where arrays are not practical.



DFN0603-2L

Features

- ★ Small Body Outline Dimensions: 0.61 mm x 0.31 mm
- ★ Low Body Height: 0.28 mm
- ★ Low Leakage
- ★ Response Time is Typically < 1 ns</p>
- ★ ESD Rating of Class 3 per Human Body Model
- ★ IEC61000-4-2 Level 4 ESD Protection
- ★ These are Pb-Free Devices
- ★ We declare that the material of product compliance with RoHS requirements and Halogen Free.



Circuit Diagram

Orderingin formation

| Product ID | Pack | Qty(PCS) |
|----------------|------------|----------|
| HSTN061050BL15 | DFN0603-2L | 15000 |

Absolute Ratings(Tamb = 25° C)

| Symbol | Parameter | Value | Units |
|------------------|--|-------------|-------|
| P _{PP} | Peak Pulse Power (t _P = 8/20μs) | 75 | W |
| TL | Maximum lead temperature for soldering during 10s | 260 | °C |
| T _{stg} | Storage Temperature Range | -55 to +150 | °C |
| T _{op} | Operating Temperature Range | -40 to +125 | °C |
| T _j | Maximum junction temperature | 150 | °C |
| | IEC61000-4-2 (ESD) air discharge contact discharge | ±15 ±10 | KV |

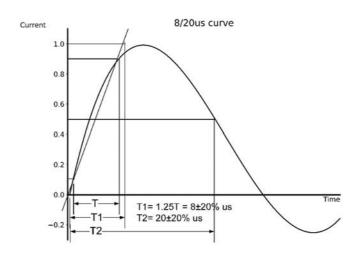


Electrical Characteristics

| V _{RWM} (V) | I _R (uA) @ V _{RWM} | V _{BR} (V)@ I _T (Note 1) | Ι _τ | V _C (V) @ I _{PP} =1 A* | V _C (V) @ Max I _{PP} * | I _{PP} (A)* | P _{PK} (W)* | C (pF) |
|----------------------|---|---|----------------|---|---|----------------------|----------------------|-----------|
| Max | Max | Min | mA | Тур | Max | Max | Max | Max |
| 5.0 | 1.0 | 6.0 | 1 | 15 | 25 | 3 | 75 | 0.25 |

^{*}Surge current waveform per Figure 1.

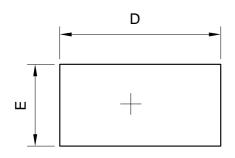
Typical Characteristics

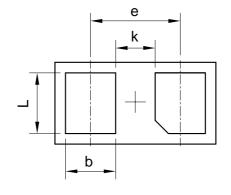


^{1.} V_{BR} is measured with a pluse test current I_T at an ambient temperature of 25 $^\circ\!\!\!\!$ C .



Outline And Dimensions

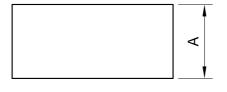




TOP VIEW

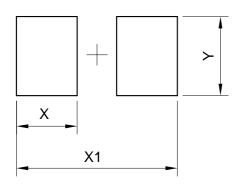
BOTTOM VVIEW

| DFN0603-2L | | | | | |
|----------------------|------|------|------|--|--|
| Dim | Min | Тур. | Max | | |
| D | 0.58 | 0.61 | 0.64 | | |
| Е | 0.28 | 0.31 | 0.34 | | |
| е | - | 0.34 | _ | | |
| L | 0.20 | 0.23 | 0.26 | | |
| b | 0.16 | 0.19 | 0.22 | | |
| Α | 0.25 | 0.28 | 0.31 | | |
| k | 0.12 | 0.15 | 0.18 | | |
| All Dimensions in mm | | | | | |



SSIDE VIEW

Soledering Footprint



| DFN0603-2L | | |
|------------|------|--|
| DIM | (mm) | |
| Χ | 0.23 | |
| X1 | 0.61 | |
| Υ | 0.30 | |

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