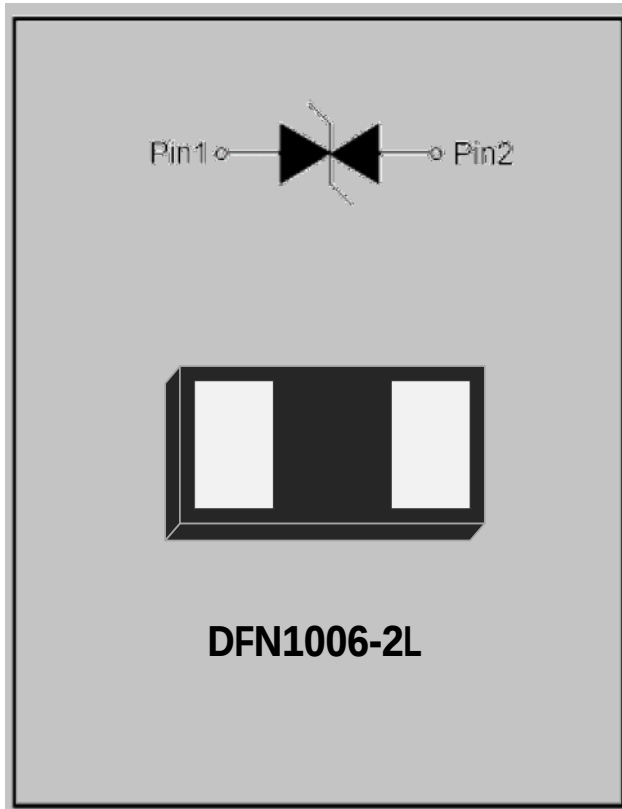


## 1-Line, Bi-directional, Transient Voltage Suppressor



### Features

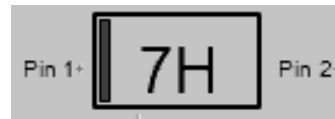
- ✕ Stand-off voltage:  $\pm 7V$  Max
- ✕ Transient protection for each line according to
  - IEC61000-4-2(ESD):  $\phi 30kV$  (contact)
  - IEC61000-4-4 (EFT): 40A (5/50ns)
  - IEC61000-4-5(surge): 9A (8/20>s)
- ✕ Low leakage current
- ✕ Ultra-low capacitance:  $C_J = 20pF$  typ
- ✕ Low clamping voltage:  
 $V_{CL} = 9.6V$  typ. @  $I_{PP} = 16A$  (TLP)
- ✕ RoHS Compliant

### Applications

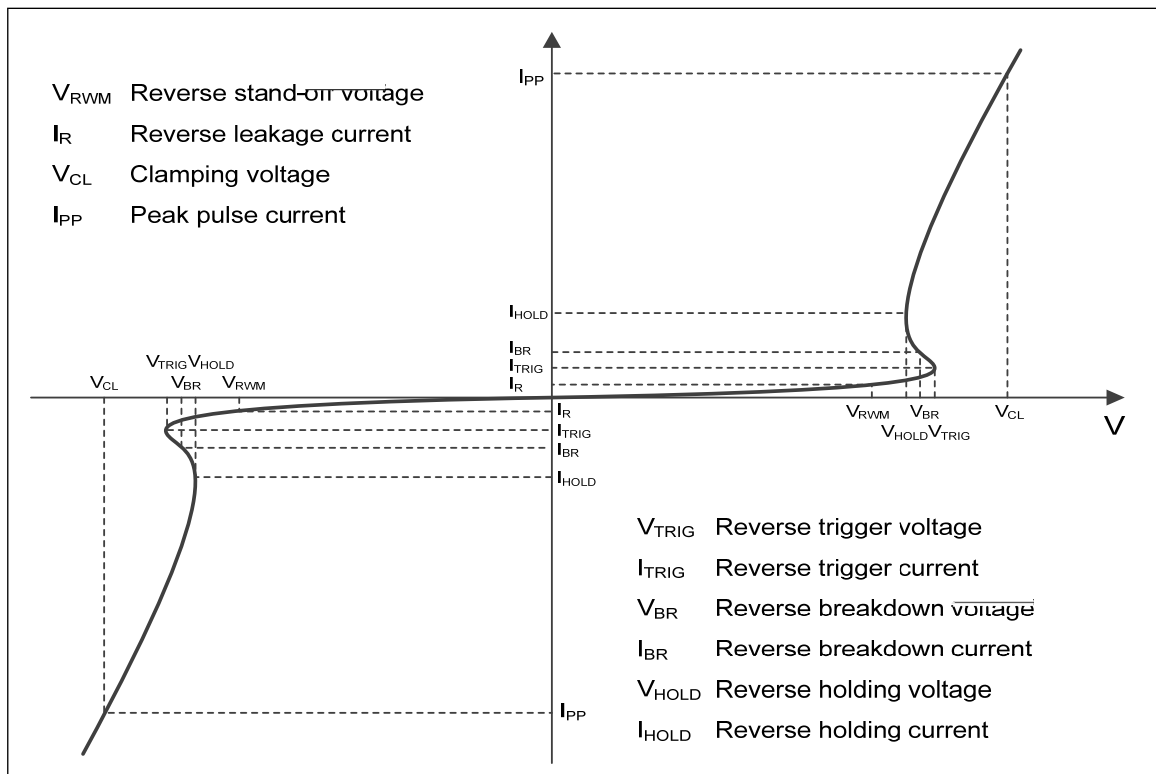
- ✕ Cellular Handsets
- ✕ Tablets
- ✕ Laptops
- ✕ Other portable devices
- ✕ Network communication devices

### Mechanical Data

- ✕ Package: DFN1006-2L
- ✕ Case Material:  $\phi$ Green $\phi$  Molding Compound
- ✕ Moisture Sensitivity: Level 3 per J-STD-020
- ✕ Marking Information: See Below



### Definitions of electrical characteristics







## $\Omega$ Characteristics (Typical)

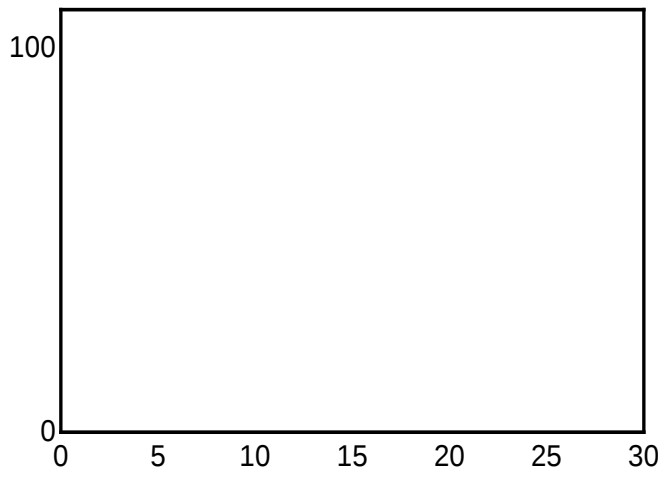
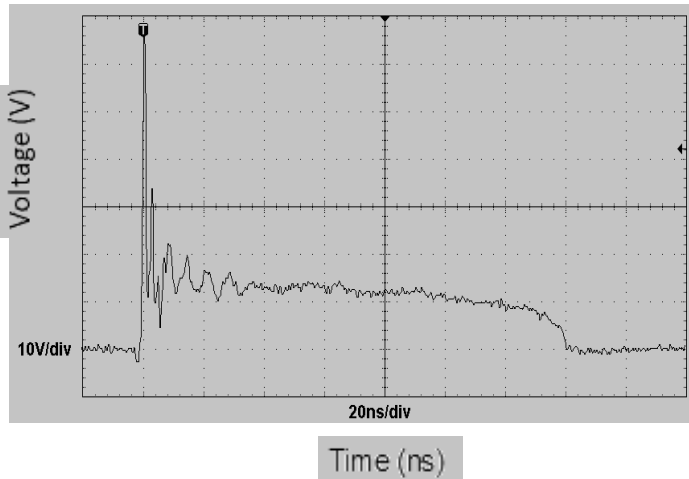
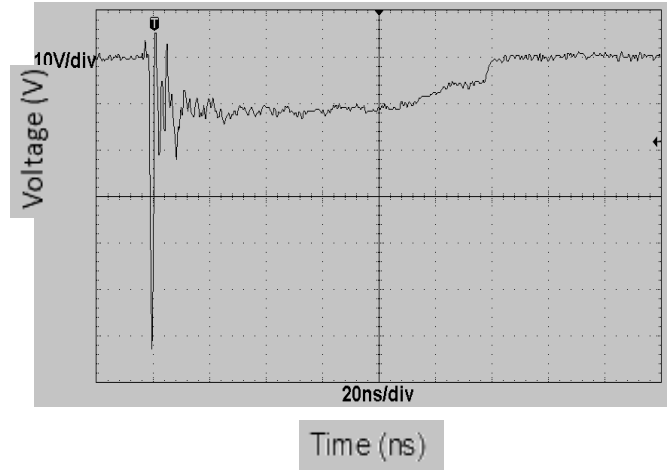


Fig.7 ESD clamping



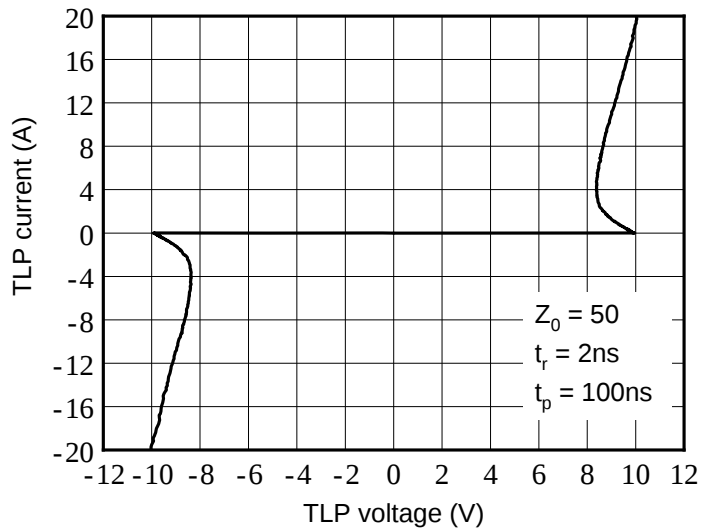
(+8kV contact discharge per IEC61000-4-2)

Fig.8 ESD clamping t

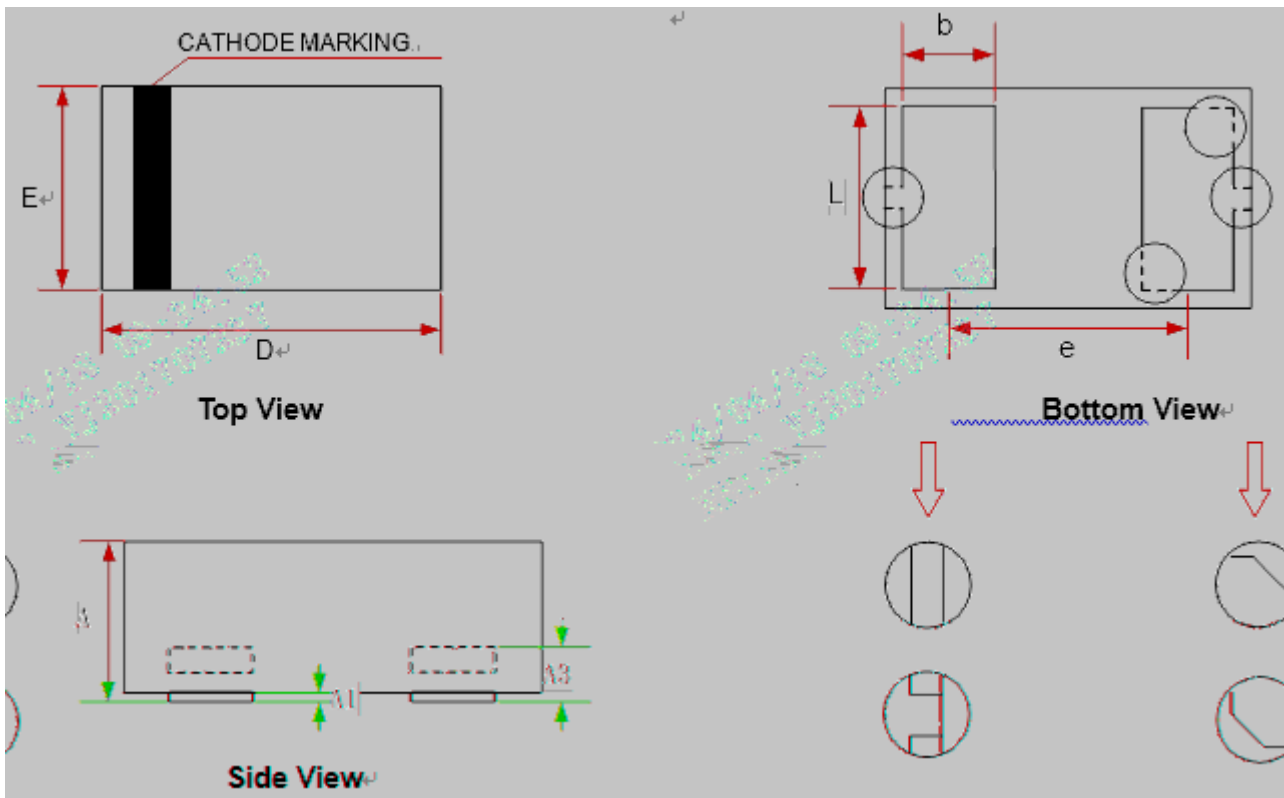


(-8kV contact discharge per IEC61000-4-2)

Fig.9 TLP Measurement

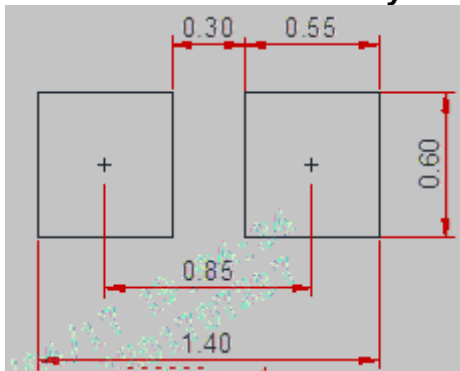


## Ω Outline Dimensions



| Symbol | Dimensions in Millimeters |       |       |
|--------|---------------------------|-------|-------|
|        | Min.                      | Typ.  | Max.  |
| A      | 0.340                     | 0.450 | 0.530 |
| A1     | 0.000                     | 0.020 | 0.050 |
| A3     | 0.125 Ref.                |       |       |
| D      | 0.950                     | 1.000 | 1.080 |
| E      | 0.550                     | 0.600 | 0.680 |
| b      | 0.200                     | 0.250 | 0.300 |
| L      | 0.450                     | 0.500 | 0.550 |
| e      | 0.650 BSC                 |       |       |

## ■ Recommended PCB Layout



Unit:mm

### Notes:

This recommended land pattern is for reference purposes only. Please consult your manufacturing group to ensure your PCB design guidelines are met.



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