

DFN1006-2L Plastic-Encapsulate ESD Protection Diodes

Features

- Low leakage current
- DFN1006 surface mount package
- IEC 61000-4-2 (ESD Air): $\pm 15\text{kV}$
- IEC 61000-4-2 (ESD Contact): $\pm 8\text{kV}$
- IEC 61000-4-5 (Lightning 8/20 μs): 2.5A

Applications

- Cellular Handsets and Accessories
- Notebooks and Handhelds, Audio Players, Peripherals
- Personal Digital Assistants, Portable
- Keypads, Side Keys, LCD Displays

Function Diagram



Reverse Working Voltage
15V Max.
Ultra Small capacitance
0.5pF(Max.)

DFN1006-2L

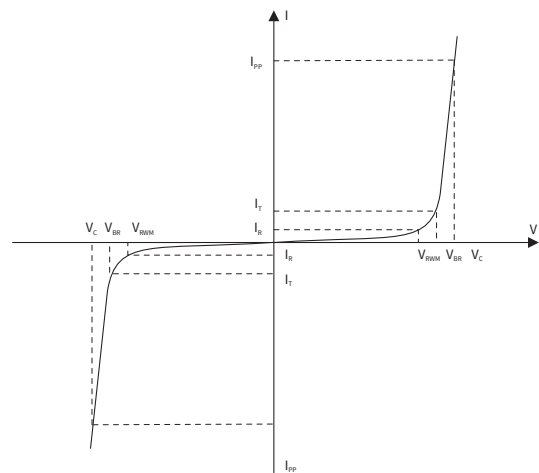


Maximum Ratings (Ta=25°C Unless otherwise specified)

| SYMBOL | PARAMETER | CONDITIONS | VALUE | UNIT |
|------------------|-------------------------------------|---------------------------------|-------------|------|
| V _{ESD} | Electrostatic Discharge Voltage | ESD per IEC 61000-4-2(Air) | ± 15 | KV |
| | | ESD per IEC 61000-4-2(Contact) | ± 8.0 | KV |
| P _{PP} | Peak Pulse Power | tp = 8/20 μs | 90 | W |
| I _{PP} | Rated Peak Pulse Current | tp = 8/20 μs | 2.5 | A |
| T _J | Operating JunctionTemperature Range | — | -55 to +125 | °C |
| T _{STG} | Operating JunctionTemperature Range | — | -55 to +150 | °C |

Electrical Parameter

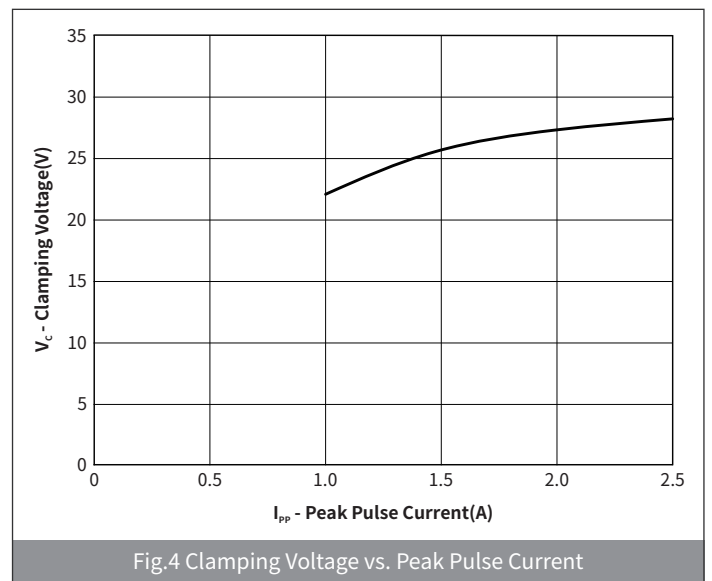
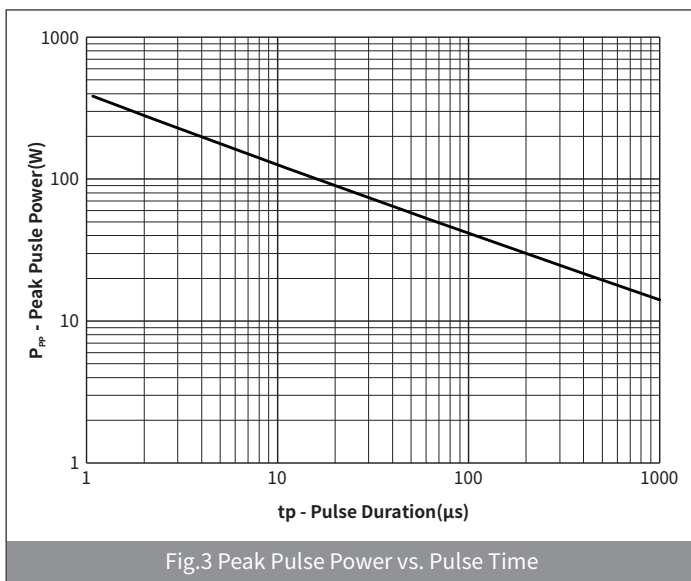
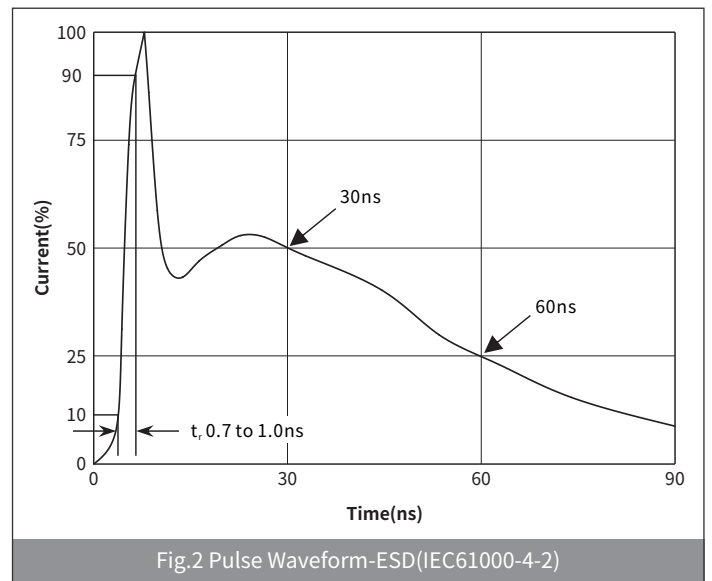
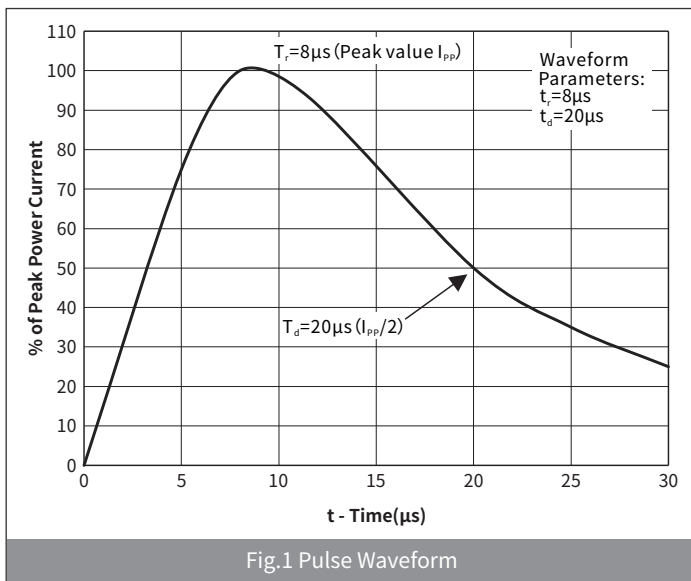
| SYMBOL | PARAMETER |
|------------------|--|
| V _C | Clamping Voltage @ I _{PP} |
| V _{BR} | Breakdown Voltage @ I _T |
| I _{PP} | Peak Pulse Current |
| I _T | Test Current |
| I _R | Reverse Leakage Current @ VRWM |
| V _{RWM} | Peak Reverse Working Voltage |
| P _{PP} | Peak Pulse Power Dissipation |
| C _J | Junction Capacitance @ V _R =0V,f=1MHz |
| I _F | Forward Current |
| V _F | Forward Voltage @I _F |



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

| PARAMETER | SYMBOL | CONDITION | Min | Typ | Max | UNIT |
|------------------------------|-----------|---|------|-----|------|---------------|
| Peak Reverse Working Voltage | V_{RWM} | $T_a=25^\circ\text{C}$ | — | — | 15 | V |
| Breakdown Voltage | V_{BR} | $I_R=1.0\text{mA}, T_a=25^\circ\text{C}$ | 16.7 | — | 21.5 | V |
| Reverse Leakage Current | I_R | $V_R=15\text{V}, T_a=25^\circ\text{C}$ | — | — | 0.2 | μA |
| Clamping Voltage | V_C | $I_{PP}=1.0\text{A}, t_p=8/20\mu\text{s}$ | — | — | 26 | V |
| | | $I_{PP}=2.5\text{A}, t_p=8/20\mu\text{s}$ | — | — | 35 | |
| Junction Capacitance | C_J | $V_R=0\text{V}, f=1\text{MHz}$ | — | 0.3 | 0.5 | pF |

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



H15VU10B

Bi-directional 15V Ultra Small Capacitance ESD

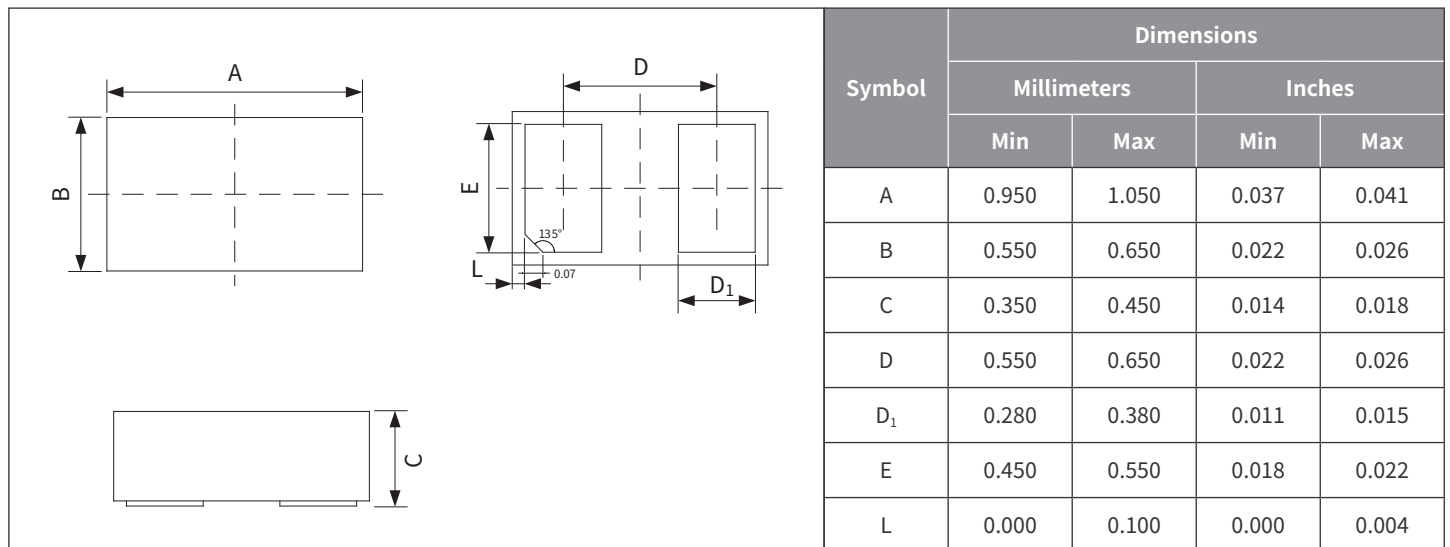
Ordering Information

| PREFERRED P/N | PACKAGE | SIZE(mm) | DELIVERY MODE | MPQ(PCS) |
|---------------|---------|----------------|---------------|----------|
| H15VU10B | DFN1006 | 1.00×0.60×0.37 | 7" | 3000 |

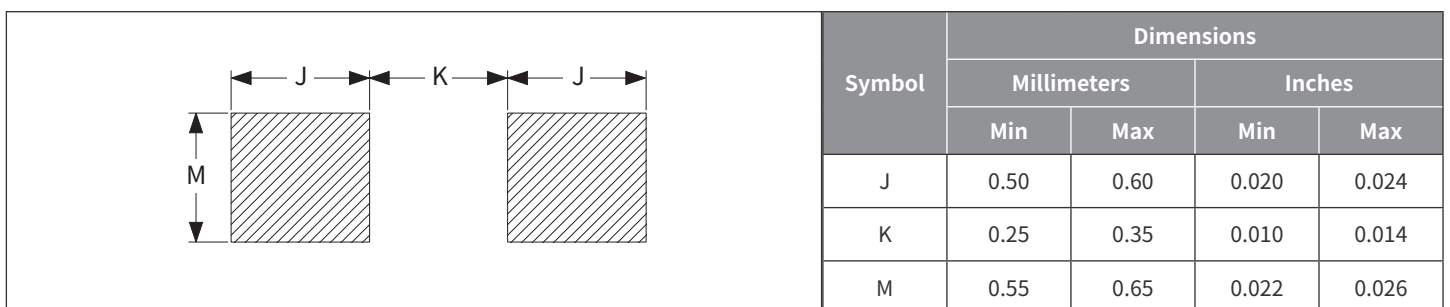
Recommended Soldering Conditions



Package Outline Dimensions (DFN1006)



Suggested Pad Layout



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