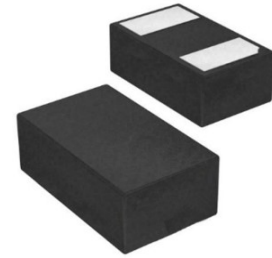


Features

- Ultra small package: 1.0x0.6x0.5mm
- Ultra low leakage: nA level
- Low clamping voltage
- 2-pin leadless package
- RoHS compliant



IEC COMPATIBILITY (EN61000-4)

- IEC 61000-4-2 (ESD) $\pm 25\text{kV}$ (air),
 $\pm 25\text{kV}$ (contact)
- IEC 61000-4-5 (Lightning) 5A (8/20 μs)

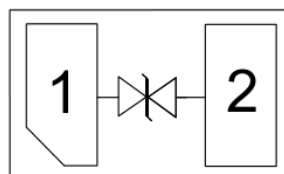
Mechanical Characteristics

- Package: DFN1006-2
- Molding compound flammability rating: UL 94V-0
- Marking: Marking Code
- Packaging: Tape and Reel
- RoHS/WEEE Compliant
- MSD Level: 2

Applications

- Cellular Handsets and Accessories
- Personal Digital Assistants
- Notebooks and Handhelds
- Portable Instrumentation
- Digital Cameras
- Peripherals
- Audio Players
- Industrial Equipment

Schematic and PIN Configuration

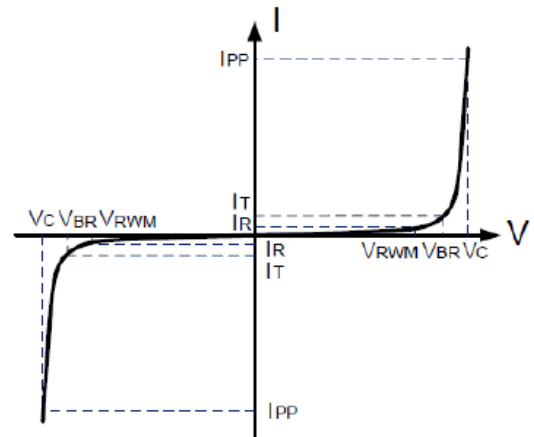


Absolute Maximum Ratings (TA=25°C unless otherwise specified)

| Rating | Symbol | Value | Units |
|--|-----------|-------------|-------|
| Peak Pulse Power ($t_p = 8/20\mu s$) | P_{PP} | 200 | W |
| Peak Pulse Current ($t_p = 8/20\mu s$) | I_{pp} | 5 | A |
| ESD per IEC 61000-4-2(Air) | V_{ESD} | ± 25 | kV |
| ESD per IEC 61000-4-2(contact) | | ± 25 | |
| Operating Temperature | T_J | -55 to +125 | °C |
| Storage Temperature | T_{STG} | -55 to +150 | °C |

Portion Electronics Parameter

| Symbol | Parameter |
|----------|------------------------------------|
| I_T | Test Current |
| I_{PP} | Maximum Reverse Peak Pulse Current |
| V_C | Clamping Voltage @ I_C |



Electrical Characteristics (TA=25°C unless otherwise specified)

| Parameter | Symbol | Conditions | Min | Typical | Max | Units |
|---------------------------|-----------|---|-----|---------|-----|---------------|
| Reverse Stand-Off Voltage | V_{RWM} | | | | 18 | V |
| Reverse Breakdown Voltage | V_{BR} | $I_T = 1\text{mA}$ | 20 | | | V |
| Reverse Leakage Current | I_R | $V_{RWM} = 18\text{V}$ | | | 0.5 | μA |
| ESD Clamping Voltage | V_C | $I_{PP} = 4\text{A}$, $t_p = 0.2/100\text{ns}$ (TLP) | | 31.5 | | V |
| | | $I_{PP} = 16\text{A}$, $t_p = 0.2/100\text{ns}$ (TLP) | | 37.5 | | V |
| Clamping Voltage | V_C | $I_{PP} = 5\text{A}$, $t_p = 8/20\mu s$ | | 36 | 40 | V |
| Junction Capacitance | C_j | $V_R = 0\text{V}$, $f = 1\text{MHz}$ | | 12 | 16 | pF |

Typical Characteristics (TA=25°C unless otherwise Specified)

Figure 1: Peak Pulse Power Vs Pulse Time

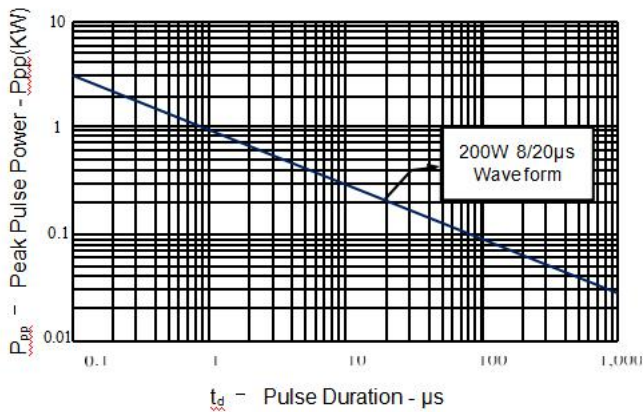


Figure 2: Power Derating Curve

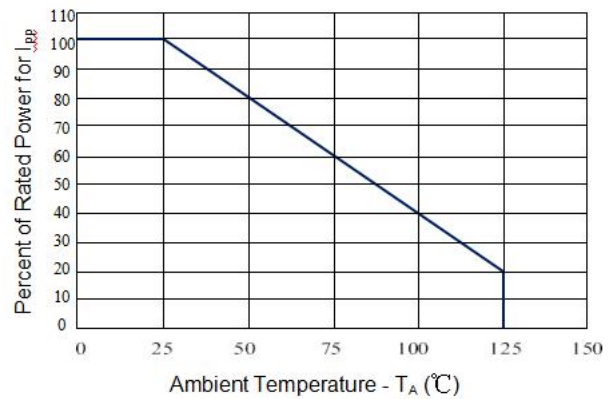


Figure 3: Clamping Voltage vs. Peak Pulse Current

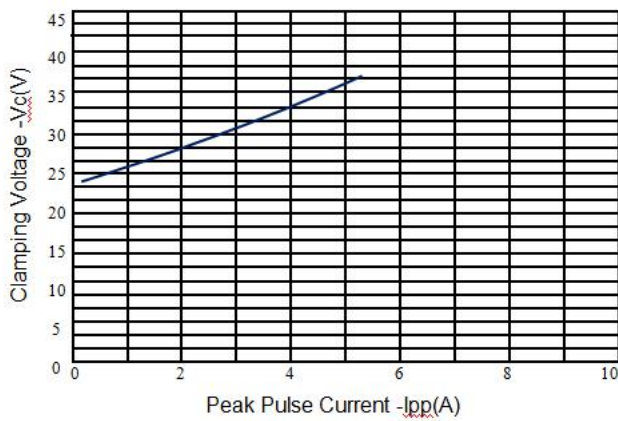


Figure 4: Normalized Junction Capacitance vs. Reverse Voltage

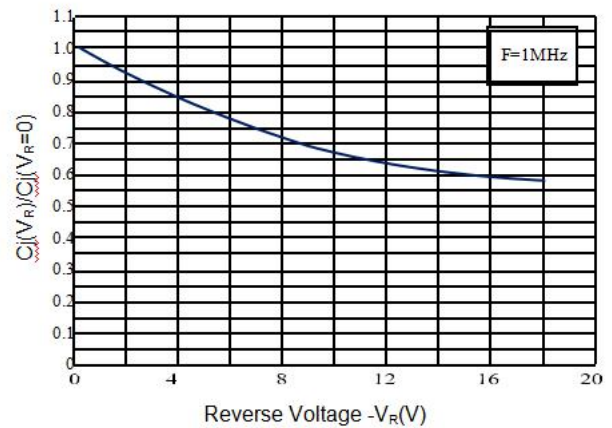


Figure 5: TLP Positive I-V Curve

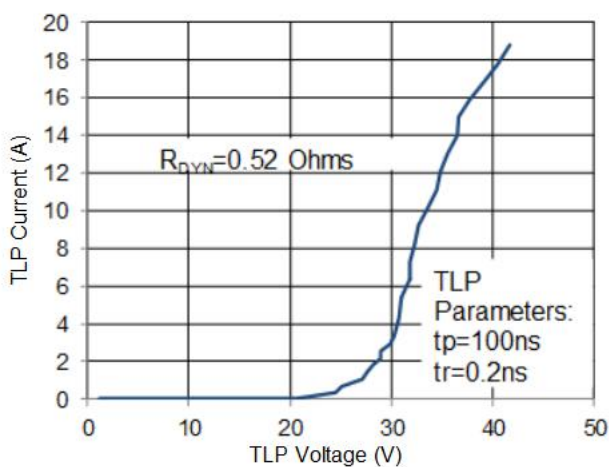
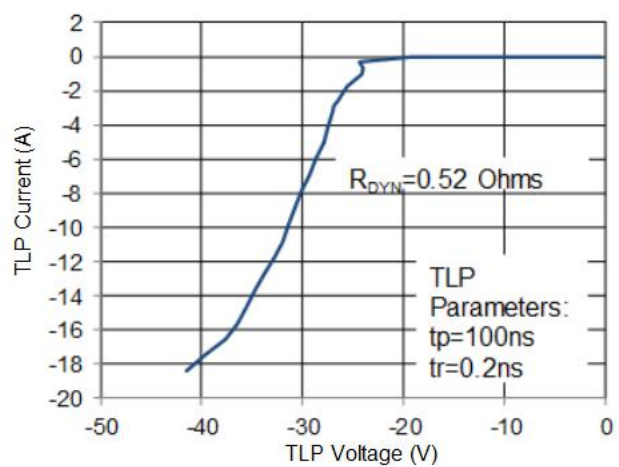


Figure 6: TLP Negative I-V Curve



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