

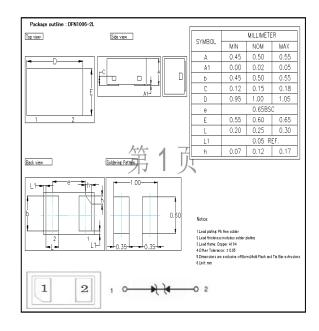
Electrolstatic discharge Protection Devices(ESD)

FEATURES

- Bi-Directional Transient Voltage Suppressor
- Low Capacitance and Low Leakage
- Response Time is Typically < 1 ns
- ROHS Compliant
- ESD Protection, IEC61000-4-2 Level 4
- UL-94 V-O/Green EMC
- Matte Tin Lead finish (Pb-Free)

MECHANICAL DATA

- Case style:DFN1006-2L molded plastic
- Mounting position:any



MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted)

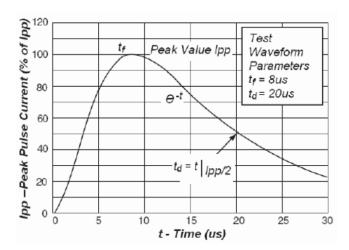
| Parameter | Symbol | Value | Units | |
|--------------------------------------------------------|--------------|-------------|-------|--|
| ESD Voltage IEC61000-4-2 Air | VESD-Air | ±25 | kV | |
| ESD Voltage IEC61000-4-2 Contact | VESD-Contact | ±20 | kV | |
| Total Power Dissipation on FR-5 Board | PD | 200 | mW | |
| Junction Temperature | TJ | -55 to +150 | °C | |
| Storage Temperature | Тѕтс | -55 to +150 | °C | |
| Lead Solder Temperature – Maximum (10 Second Duration) | TL | 260 | °C | |

| Parameter | Symbol | Conditions | Min | Тур | Max | Units |
|------------------------------|------------------|-------------------------------|-----|-----|------|-------|
| Reverse Working Peak Voltage | V _{RWM} | | | | 5.0 | V |
| Reverse Breakdown Voltage | V _{BR} | I _T = 1mA | 5.6 | | 8.0 | V |
| Reverse Current | I _{R1} | V _{RWM} = 5V | | | 0.5 | μА |
| Reverse Current | I _{R2} | V _R = 3.5V | | | 0.3 | μА |
| Clamping Voltage | Vc | Ipp = 1A | | | 9.8 | V |
| Clamping Voltage | Vc | Ipp = 5.5A | | | 12.5 | V |
| Capacitance | С | V _R = 0V, f = 1MHz | | | 15 | pF |

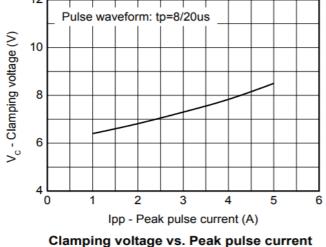
http://www.hfzt.net 1 2017.6-Rev.A

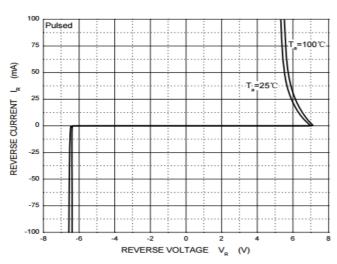


RATINGS AND CHARACTERISTIC CURVES

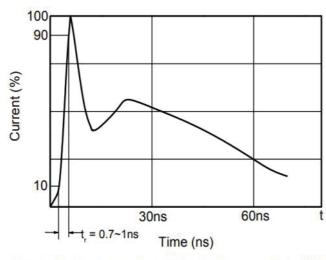


Pulse Waveform

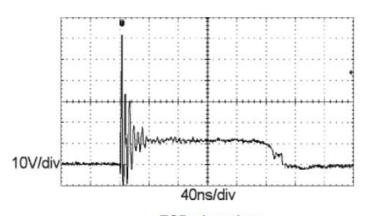




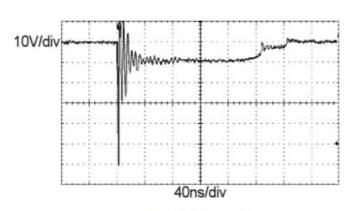
Reverse Characteristics



Contact discharge current waveform per IEC61000-4-2



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



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