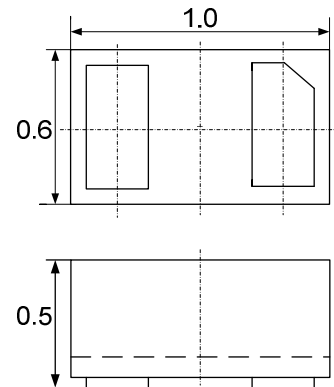


Features

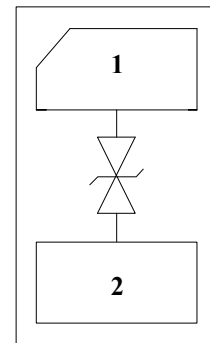
- ◆ Ultra small package: 1.0x0.6x0.5mm
- ◆ Low leakage: nA level
- ◆ Low operating voltage: 5V
- ◆ Low clamping voltage
- ◆ 2-pin leadless package
- ◆ Complies with following standards:
 - IEC 61000-4-2 (ESD) immunity test
Air discharge: $\pm 25\text{kV}$ Contact
discharge: $\pm 22\text{kV}$
 - IEC61000-4-4 (EFT) 40A (5/50ns)
 - IEC61000-4-5 (Lightning) 7A (8/20 μs)
- ◆ RoHS Compliant



Maximum Dimensions (mm)

Mechanical Characteristics

- ◆ Package: DFN1006-2
- ◆ Lead Finish: NiPdAu
- ◆ Case Material: “Green” Molding Compound.
- ◆ UL Flammability Classification Rating 94V-0
- ◆ Moisture Sensitivity: Level 3 per J-STD-020
- ◆ Terminal Connections: See Diagram Below



DFN1006-2 (Bottom View)

Applications

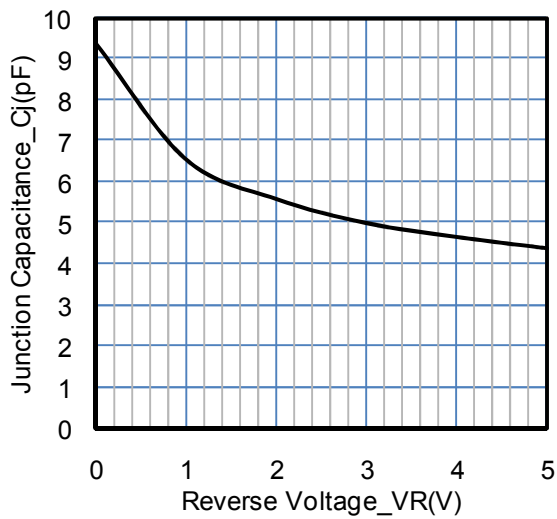
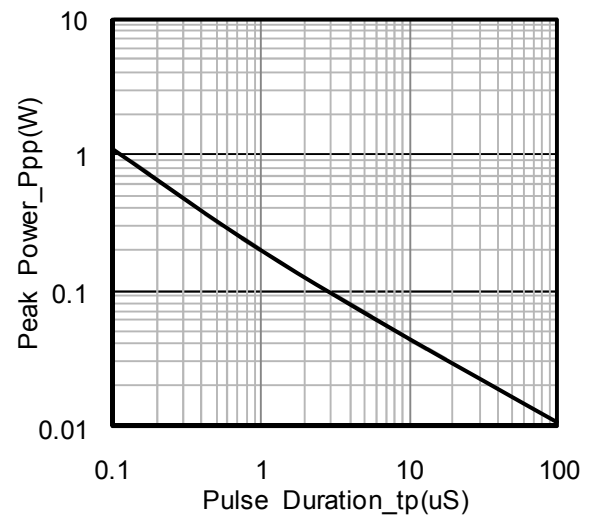
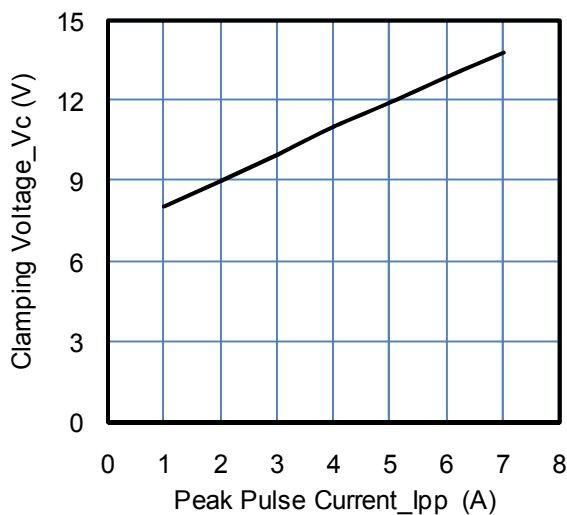
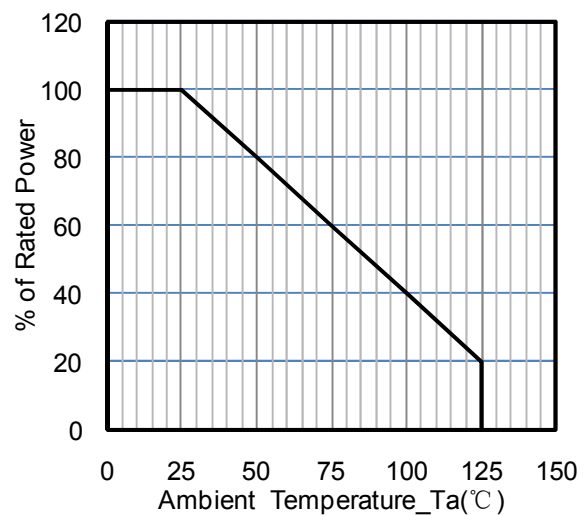
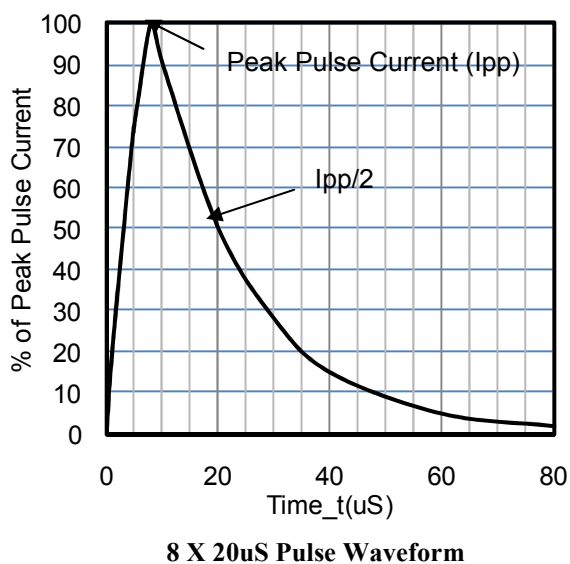
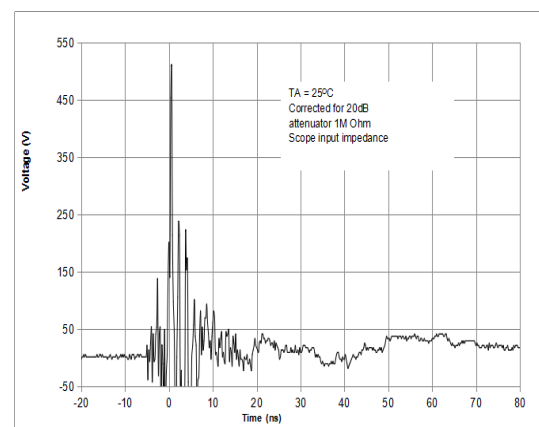
- ◆ Personal Digital Assistants
- ◆ Peripherals
- ◆ Audio Players
- ◆ Notebooks and Handhelds
- ◆ Portable Instrumentation
- ◆ Keypads, Side Keys, LCD Displays

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

Parameter	Symbol	Value	Unit
Peak Pulse Power (8/20μs)	Ppk	105	W
Peak Pulse Current (8/20μs)	I _{PP}	7	A
ESD per IEC 61000-4-2 (Air)	V _{ESD}	±25	kV
ESD per IEC 61000-4-2 (Contact)		±22	
Operating Temperature Range	T _J	-55 to +125	°C
Storage Temperature Range	T _{stg}	-55 to +150	°C

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

Parameter	Symbol	Min	Typ	Max	Unit	Test Condition
Reverse Working Voltage	V _{RWM}			5	V	
Breakdown Voltage	V _{BR}	6	8	9	V	I _T = 1mA
Reverse Leakage Current	I _R			0.5	uA	V _{RWM} = 5V
Clamping Voltage	V _C			8	V	I _{PP} = 1A (8 x 20μs pulse)
Clamping Voltage	V _C			15	V	I _{PP} = 7A (8 x 20μs pulse)
Junction Capacitance	C _J		10		pF	V _R = 0V, f = 1MHz

Typical Performance Characteristics (TA=25°C unless otherwise specified)

Junction Capacitance vs. Reverse Voltage

Peak Pulse Power vs. Pulse Time

Clamping Voltage vs. Peak Pulse Current ($t_p = 8/20\mu$ s)

Power Derating Curve

8 X 20 μ s Pulse Waveform

ESD Clamping Voltage
30kV Contact per IEC6100-4-2