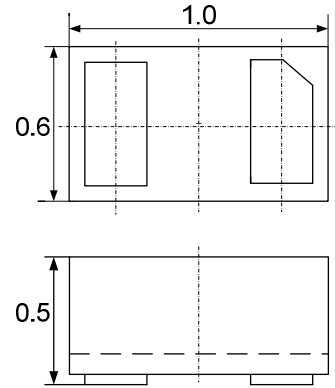


Features

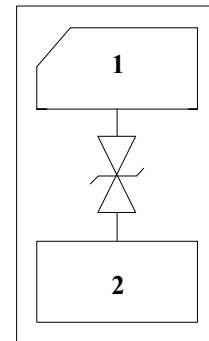
- ◆ Ultra small package: 1.0x0.6x0.5mm
- ◆ Low capacitance: 2.5pF typical
- ◆ Ultra low leakage: nA level
- ◆ Low operating voltage: 5V
- ◆ Low clamping voltage
- ◆ 2-pin leadless package
- ◆ Complies with following standards:
 - IEC 61000-4-2 (ESD) immunity test
Air discharge: $\pm 15\text{kV}$ Contact
discharge: $\pm 8\text{kV}$
 - IEC61000-4-4 (EFT) 40A (5/50ns)
- ◆ 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



DFN1006-2 (Bottom View)

Applications

- ◆ Personal Digital Assistants
- ◆ Peripherals
- ◆ Audio Players
- ◆ USB 2.0
- ◆ Portable Instrumentation
- ◆ Keypads, Side Keys, LCD Displays

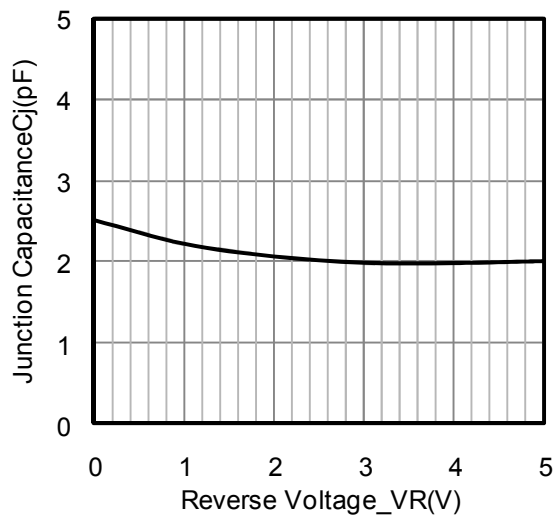
Absolute Maximum Ratings (TA=25°C unless otherwise specified)

Parameter	Symbol	Value	Unit
ESD per IEC 61000-4-2 (Air)	VESD	±15	kV
ESD per IEC 61000-4-2 (Contact)		±8	
Operating Temperature Range	TJ	-55 to +125	°C
Storage Temperature Range	Tstg	-55 to +150	°C

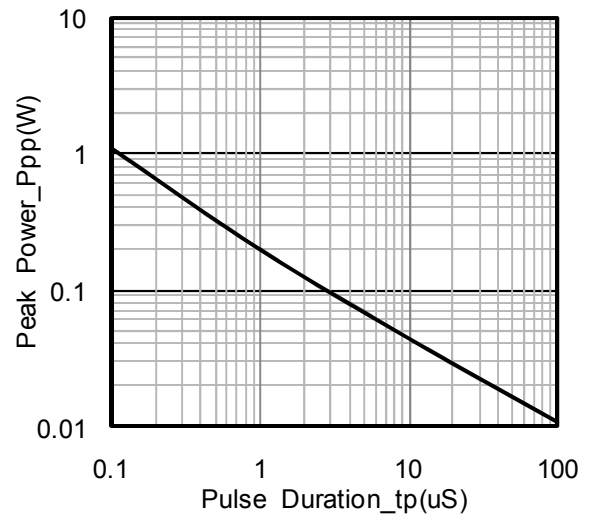
Electrical Characteristics (TA=25°C unless otherwise specified)

Parameter	Symbol	Min	Typ	Max	Unit	Test Condition
Reverse Working Voltage	VRWM			5	V	
Breakdown Voltage	VBR	5.5		9	V	IT = 1mA
Reverse Leakage Current	IR			0.5	uA	VRWM = 5V
Clamping Voltage	VC			11	V	Ipp = 1A (8 x 20µs pulse)
Junction Capacitance	CJ		2.5	3.5	pF	VR = 0V, f = 1MHz

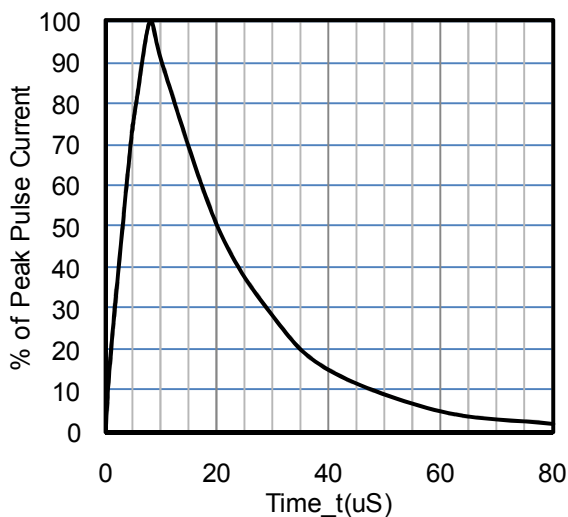
Typical Performance Characteristics (TA=25°C unless otherwise specified)



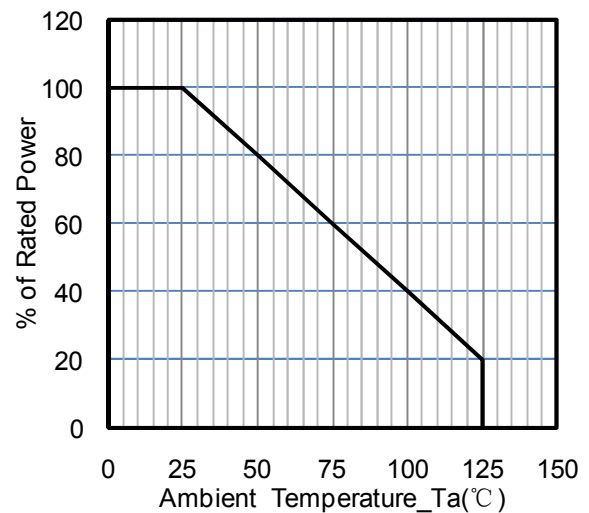
Junction Capacitance vs. Reverse Voltage



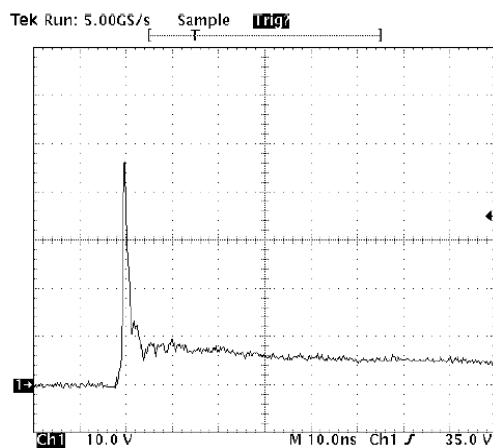
Peak Pulse Power vs. Pulse Time



8 X 20uS Pulse Waveform



Power Derating Curve



ESD Clamping Voltage

8 kV Contact per IEC61000-4-2