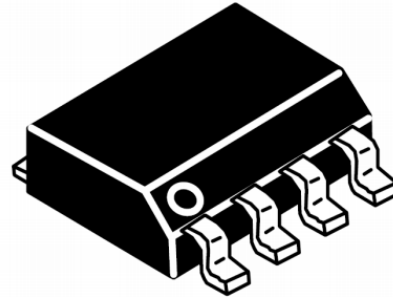


Features

- Ultra low leakage: nA level
- Operating voltage: 2.8V
- Low clamping voltage
- Complies with following standards:
 - IEC 61000-4-2 (ESD) immunity test
 - Air discharge: $\pm 30\text{kV}$
 - Contact discharge: $\pm 30\text{kV}$
 - IEC61000-4-4 (EFT) 40A (5/50ns)
 - IEC61000-4-5 (Lightning) 30A (8/20 μs)
- RoHS Compliant

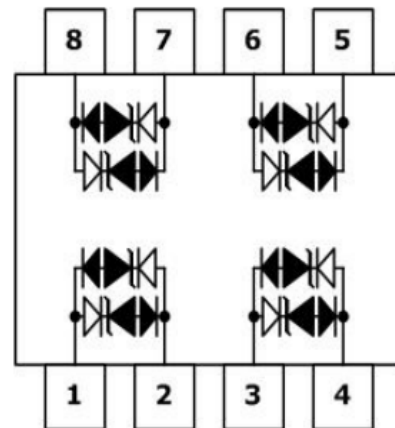
Dimensions SOP-08



Applications

- USB 2.0 power and data line
- Set-top box and digital TV
- Digital video interface (DVI)
- Notebook Computers
- SIM Ports
- 10/100/1000 Ethernet

Pin Configuration



Mechanical Characteristics

- Package: SOP-08
- Lead Finish: Lead Free
- UL Flammability Classification Rating 94V-0
- Quantity Per Reel: 500pcs
- Reel Size: 7 inch
- Device Marking: SLVU2.8-8

Absolute Maximum Ratings (T_{amb}=25°C unless otherwise specified)

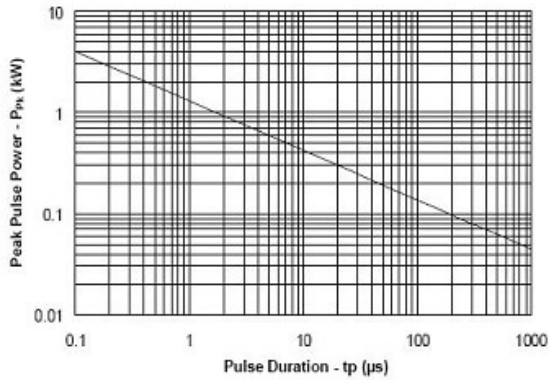
Parameter	Symbol	Value	Unit
Peak Pulse Power (8/20 μs)	P _{pp}	600	W
ESD per IEC 61000-4-2 (Air)	V _{ESD}	± 30	kV
ESD per IEC 61000-4-2 (Contact)		± 30	
Operating Temperature Range	T _J	-55 to +150	°C
Storage Temperature Range	T _{STJ}	-55 to +150	°C

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

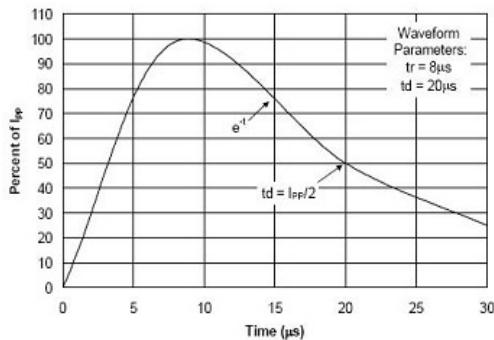
Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Reverse Working Voltage	V_{RWM}				2.8	V
Breakdown Voltage	V_{BR}	$I_T = 1\text{mA}$	3			V
Reverse Leakage Current	I_R	$V_{RWM} = 2.8\text{V}$			0.1	μA
Clamping Voltage	V_C	$I_{PP} = 1\text{A}$ (8 x 20 μs pulse)			6.3	V
Clamping Voltage	V_C	$I_{PP} = 30\text{A}$ (8 x 20 μs pulse)			21	V
Junction Capacitance	C_J	$V_R = 0\text{V}$, $f = 1\text{MHz}$		7		pF

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

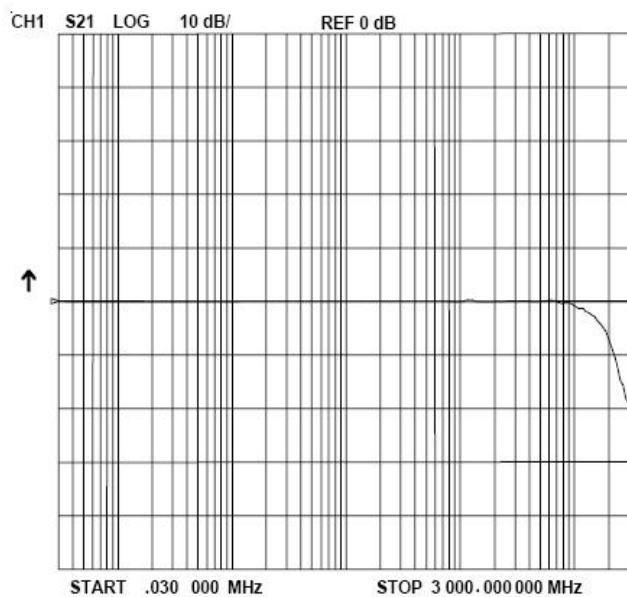
Non-Repetitive Peak Pulse Power vs. Pulse Time



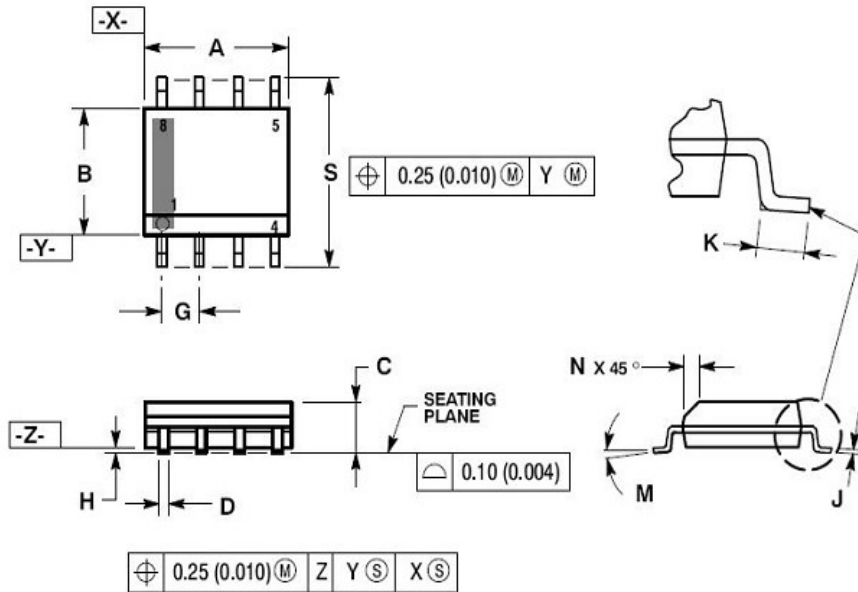
Pulse Waveform



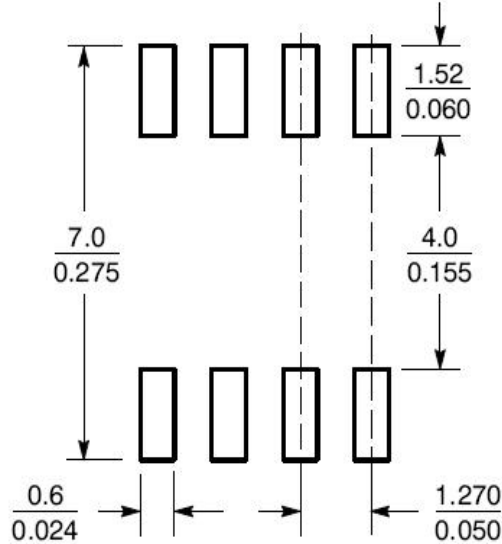
Insertion Loss S21



SOP-08 Package Outline Drawing



Suggested Land Pattern



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