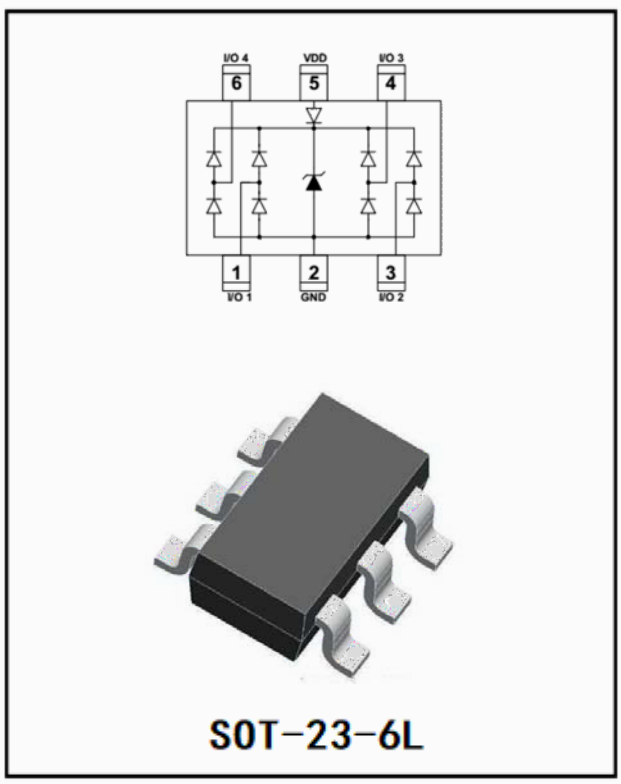
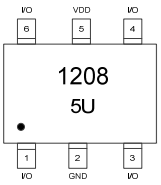


- Stand-off voltage: 5V Max
- Transient protection for each line according to
  IEC61000-4-2(ESD): ±30kV (contact)
  IEC61000-4-4(EFT):40A(5/50ns)
  IEC61000-4-5(surge): 6A (8/20μs)
- Ultra-low capacitance: C_J = 1.2pF typ
- Low leakage current
- Low clamping voltage
- RoHS Compliant

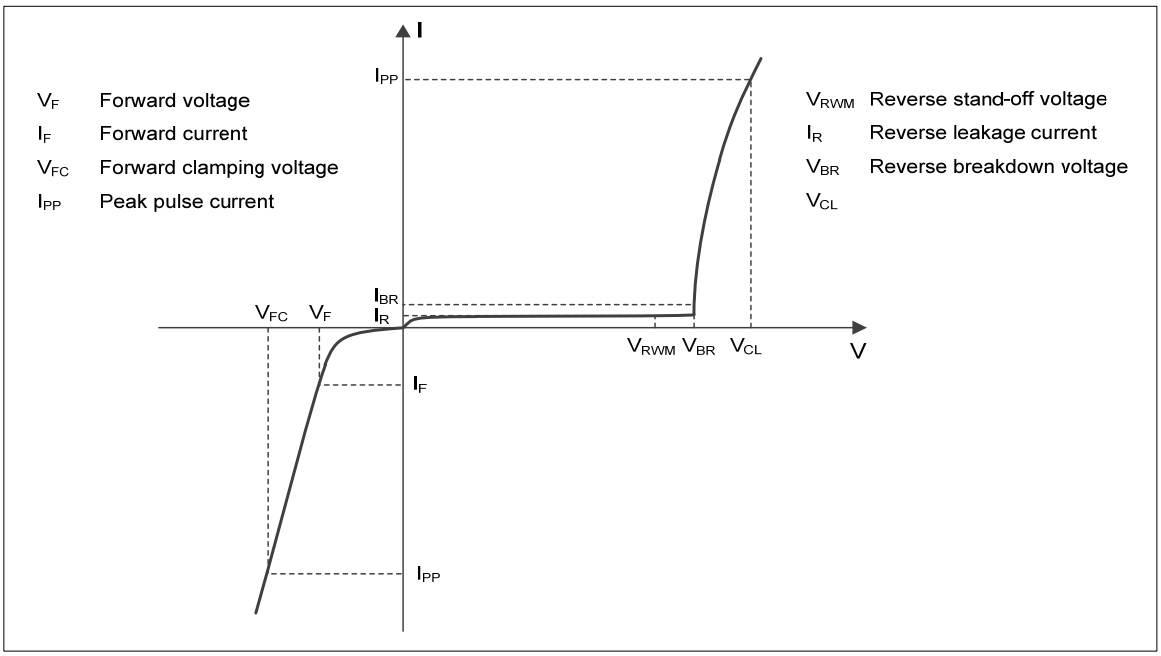
- USB 2.0
- Video Graphics Cards
- DVI
- IEEE 1394
- Monitors and Flat Panel Displays
- 10/100 Ethernet
- Notebooks

- Package: SOT-23-6L
- Lead Finish: Matte Tin
- Case Material: “Green” Molding Compound.
- Moisture Sensitivity: Level 1 per J-STD-020

●Marking Information: See Below



■



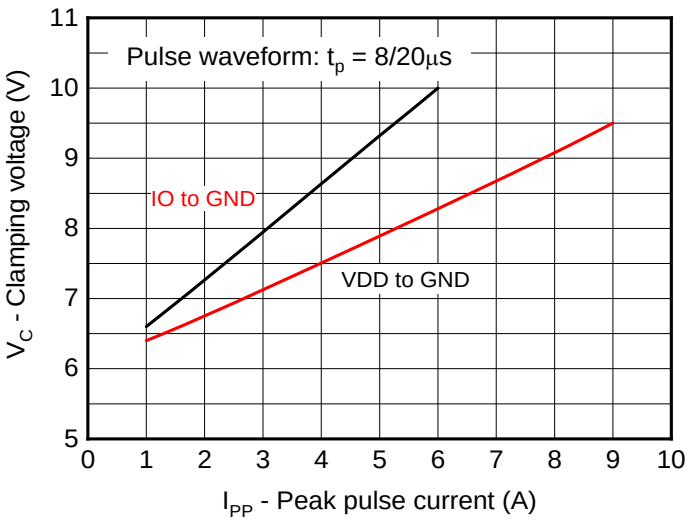
■ (Ta=25°C unless otherwise specified)

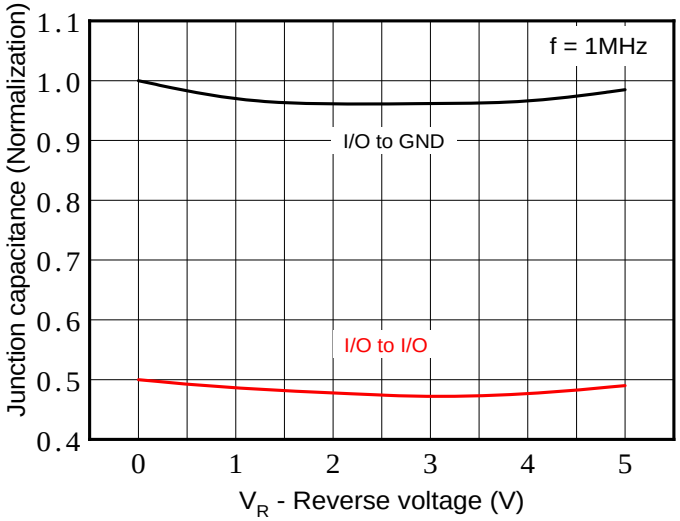
Peak pulse power (t_p = 8/20μs)	P_{pk}	72	W
Peak pulse current (t_p = 8/20μs)	I_{PP}	6	A
ESD according to IEC61000-4-2 air discharge	V_{ESD}	±30	KV
ESD according to IEC61000-4-2 contact discharge		±30	KV
Junction temperature	T_J	125	°C
Storage temperature	T_{STG}	-55~150	°C

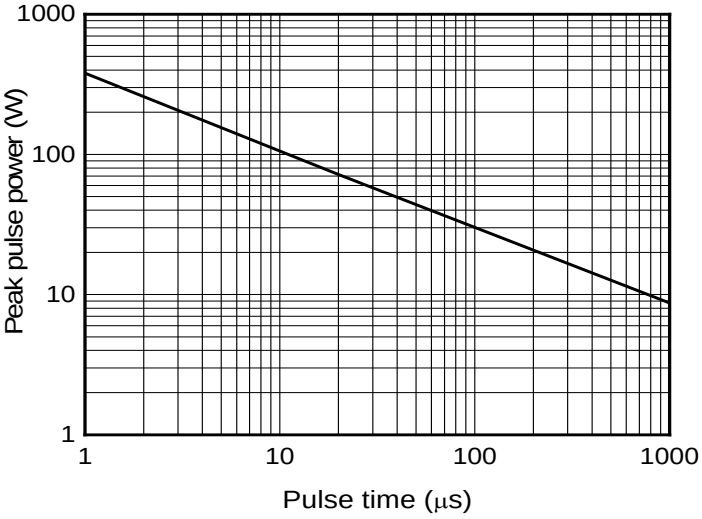
■ T_a=25 Unless otherwise specified

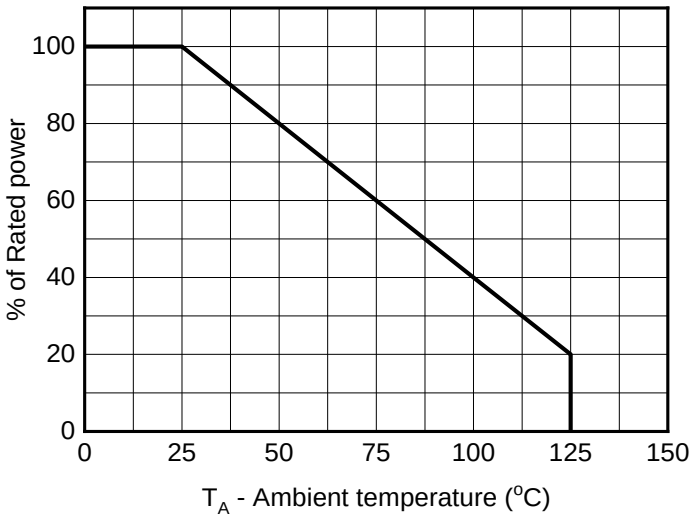
I/O Pins

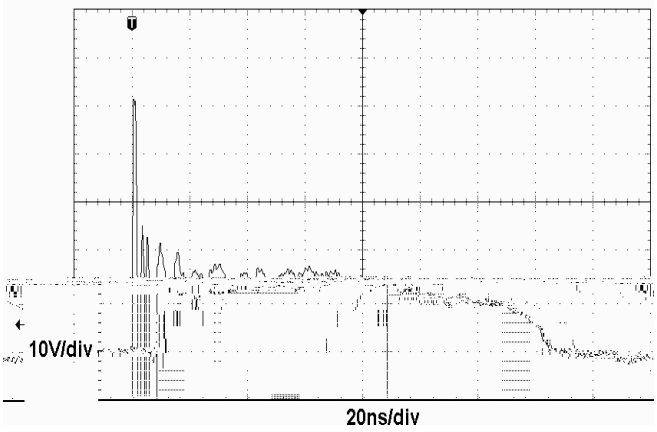
Reverse maximum working voltage	V_{RWM}	V				5.0
Reverse leakage current	I_R	nA	V_{RWM} =5V			100
Reverse breakdown voltage	V_{BR}	V	I_{BR} = 1mA	7.0	8.0	9.0
Forward voltage	V_F	V	I_F = 10mA	0.6	0.9	1.2
Clamping voltage *1)*	V_{CL}	V	I_{PP} = 16A, t_p = 100ns		11	
Dynamic resistance *1)*	R_{DYN}	Ω			0.31	
Clamping voltage *2)*	V_{CL}	V	V_{ESD} +8kV		12	
Clamping voltage *3)*	V_{CL}	V	I_{PP} = 1A, t_p = 8/20μs		6.6	8
		V	I_{PP} = 6A, t_p = 8/20μs		10	12
Junction capacitance	C_J	pF	V_R = 0V, f = 1MHz Any I/O pin to GND		1.2	1.6
		pF	V_R = 0V, f = 1MHz Between Any I/O pins		0.6	0.8

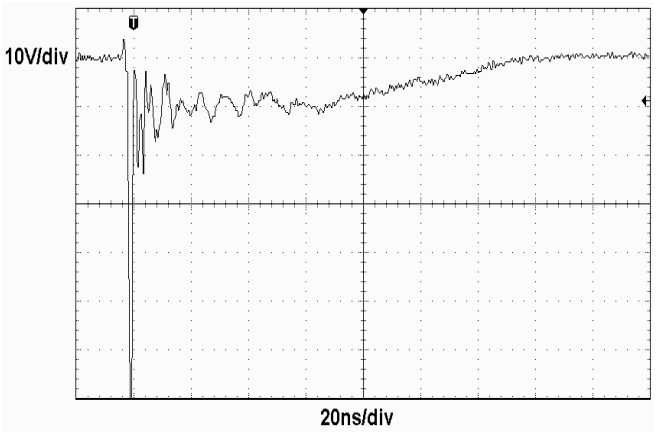

Pulse waveform: t_p = 8/20μs
IO to GND
VDD to GND
V_C - Clamping voltage (V)
I_{PP} - Peak pulse current (A)

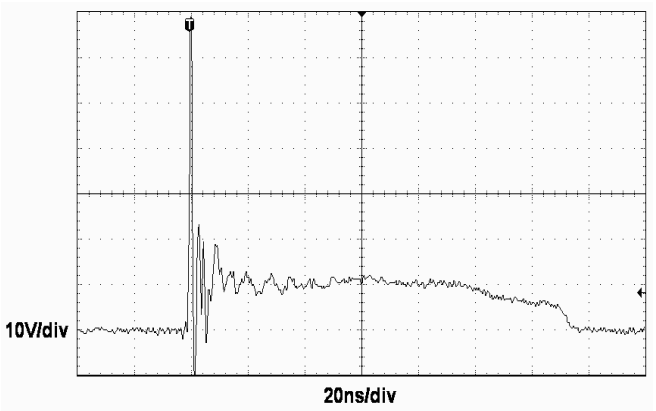

f = 1MHz
I/O to GND
I/O to I/O
Junction capacitance (Normalization)
V_R - Reverse voltage (V)

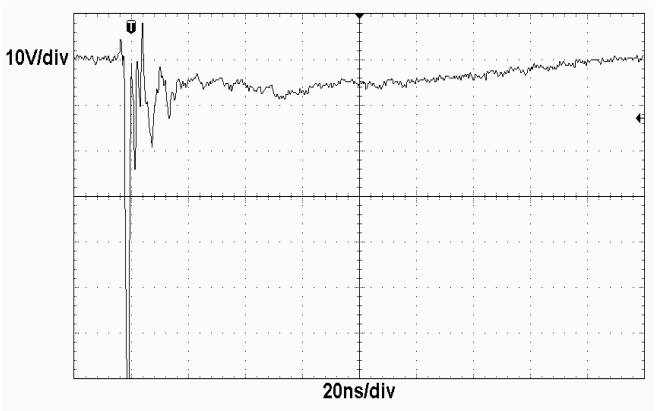

Peak pulse power (W)
Pulse time (μs)

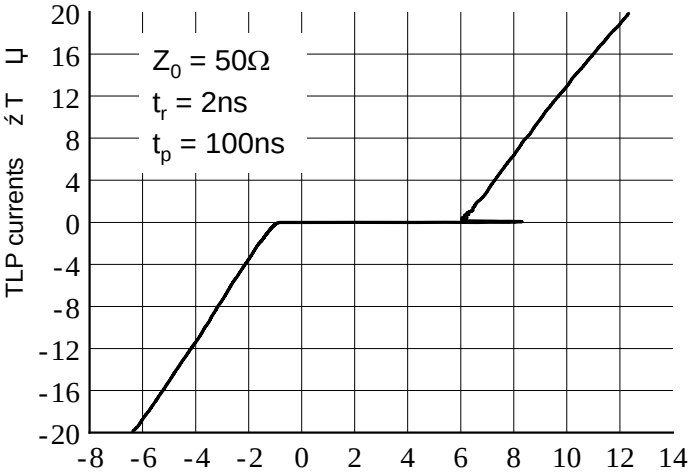

% of Rated power
T_A - Ambient temperature (°C)


10V/div
20ns/div

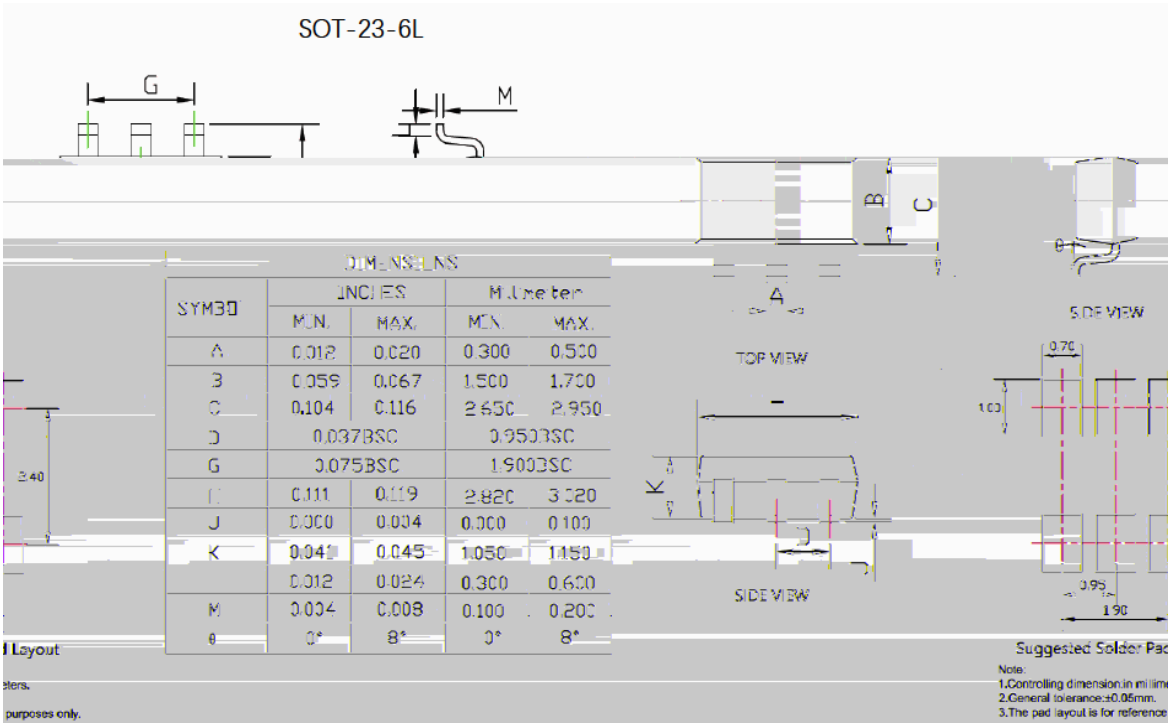

10V/div
20ns/div


10V/div
20ns/div


10V/div
20ns/div


TLP currents
Z0 = 50Ω
tr = 2ns
tp = 100ns
20
16
12
8
4
0
-4
-8
-12
-16
-20
-8
-6
-4
-2
0
2
4
6
8
10
12
14

■



DIMENSIONS

SYMBOL	INCHES		Millimeter	
	MIN.	MAX.	MIN.	MAX.
A	0.012	0.020	0.300	0.500
B	0.059	0.067	1.500	1.700
C	0.104	0.116	2.650	2.950
D	0.037BSC		0.950BSC	
G	0.075BSC		1.900BSC	
H	0.111	0.119	2.820	3.020
J	0.000	0.004	0.000	0.100
K	0.041	0.045	1.050	1.150
	0.012	0.024	0.300	0.600
M	0.004	0.008	0.100	0.200
θ	0°	8°	0°	8°

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