

## Features

- Uni-directional ESD protection of four lines
- 60W Peak pulse Power (8/20us)
- Working voltage: 5V
- Junction Capacitance: 0.3pF(Typ) I/O to I/O
- Low clamping voltage
- Low leakage current
- IEC 61000-4-2 ±12kV contact ±17kV air
- IEC 61000-4-5 (Lightning) 4.5A (8/20μs)

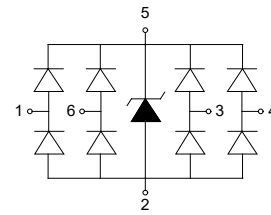
## Applications

- USB 2.0
- Monitors and flat panel displays
- 10/100/1000 ethernet
- Notebook computers
- SIM ports
- ATM interface


## Mechanical Data

- Package:SOT-23-6L
- Molding compound flammability rating: UL 94V-0
- RoHS/WEEE Compliant

## Schematic & PIN Configuration



## Ordering Information

Part Number	Package	Marking	Packing	Reel Size
NUP4114HMR6T1G	SOT-23-6L		3000 Tape & Reel	7 inches

**Absolute Maximum Rating( $T_A=25^{\circ}\text{C}$  unless otherwise Specified)**

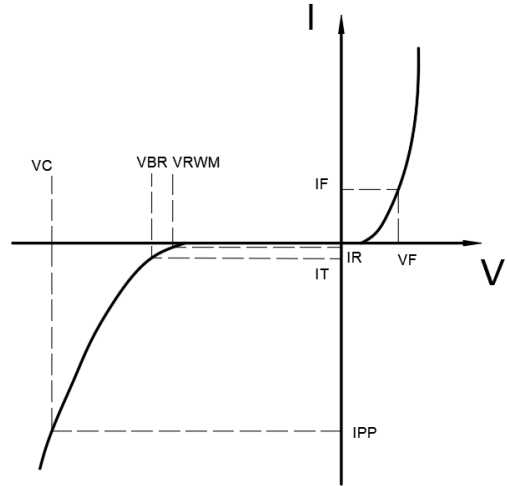
参数名称	符号	单位	最大值	备注
反向工作电压	$V_{RWM}$	V	60	
反向击穿电压	$V_{BR}$	V	4.5	$I_T = 1\text{mA}$
反向漏电流	$I_R$	$\mu\text{A}$	17	$V_{RWM} = 5\text{V}$
钳位电压	$V_C$	V	12	$I_{PP} = 4.5\text{A}; t_p = 8/20\mu\text{s}$
保持电压	$V_C$	V	150	$I_{PP} = 1\text{A}; t_p = 8/20\mu\text{s}$
结电容	$C_J$	pF		I/O to GND; $V_R = 0\text{V}; f = 1\text{MHz}$
结电容	$C_J$	pF		I/O to I/O; $V_R = 0\text{V}; f = 1\text{MHz}$

**Electrical Characteristics( $T_A=25^{\circ}\text{C}$  unless otherwise Specified)**

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Reverse Working Voltage	$V_{RWM}$				5	V
Breakdown Voltage	$V_{BR}$	$I_T = 1\text{mA}$	6			V
Reverse Leakage Current	$I_R$	$V_{RWM} = 5\text{V}$			1	$\mu\text{A}$
Holding Voltage	$V_C$	$I_{PP} = 1\text{A}; t_p = 8/20\mu\text{s}$		9	11	V
Clamping Voltage	$V_C$	$I_{PP} = 4.5\text{A}; t_p = 8/20\mu\text{s}$		12	15	V
Junction Capacitance	$C_J$	I/O to GND; $V_R = 0\text{V}; f = 1\text{MHz}$		0.6	1.0	pF
Junction Capacitance	$C_J$	I/O to I/O; $V_R = 0\text{V}; f = 1\text{MHz}$		0.3	0.5	pF



Symbol	Parameters
VRWM	Peak Reverse Working Voltage
IR	Reverse Leakage Current @ VRWM
VBR	Breakdown Voltage @ IT
IT	Test Current
IPP	Maximum Reverse Peak Pulse Current
VC	Clamping Voltage @ IPP
IF	Forward Current
VF	Forward Voltage @ IF



Typical Characteristics(T<sub>A</sub>=25°C unless otherwise Specified)

Figure1: Clamping Voltage vs. Peak Pulse Current

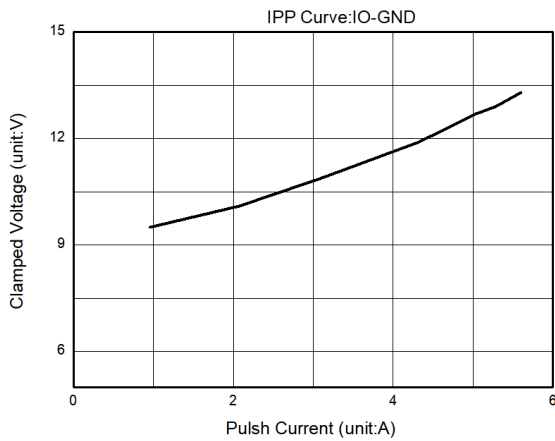


Figure2: 8 X 20us Pulse Waveform

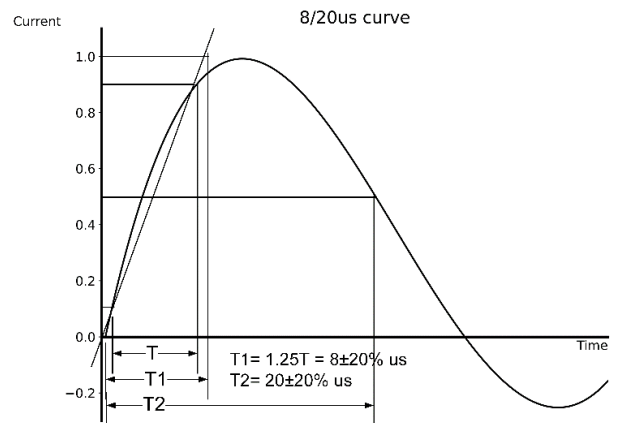


Figure3: Junction Capacitance vs. Reverse Voltage

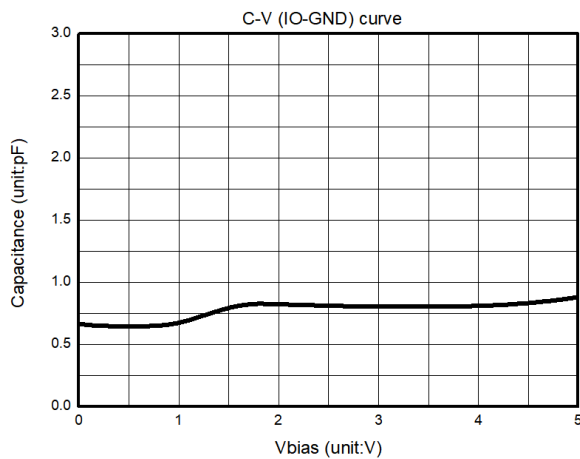


Figure4: Junction Capacitance vs. Reverse Voltage

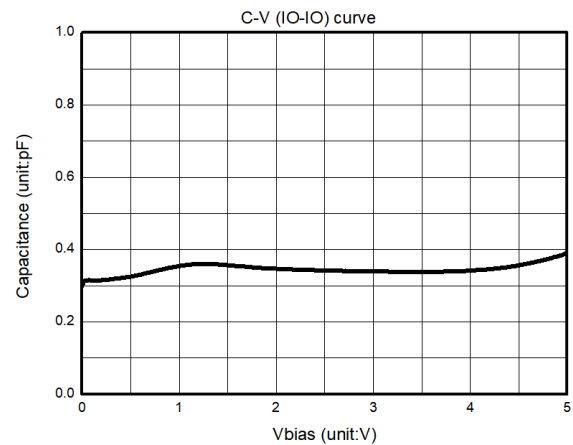




Figure5: Power derating vs. Ambient temperature

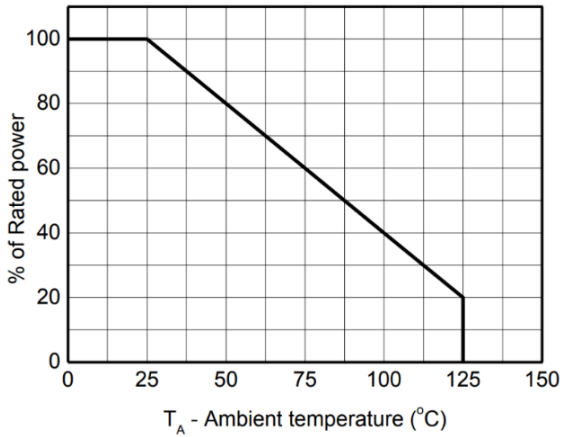
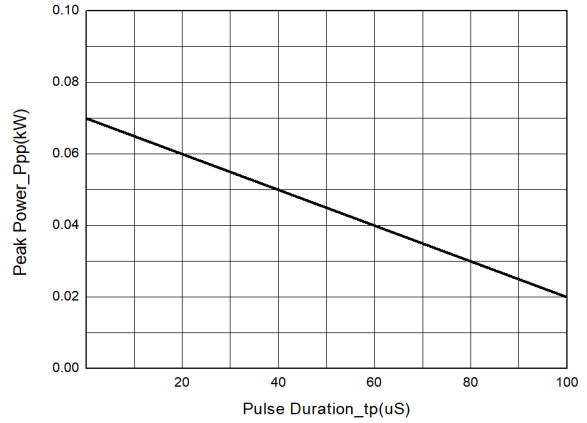
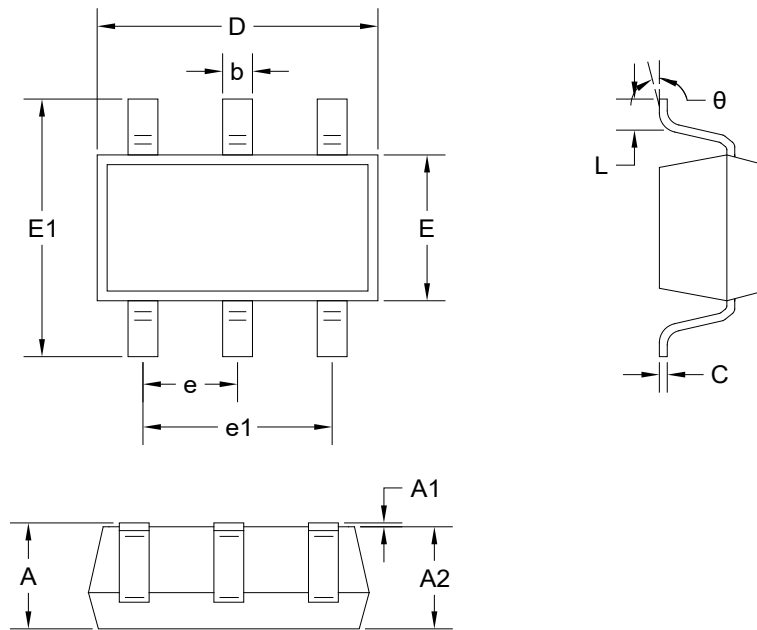


Figure6: Peak Pulse Power vs. Pulse Time



Outline Drawing – SOT-23-6L



Unit: mm

Symbol		A	A1	A2	b	c	D
Spec	Min	1.050	0.000	1.050	0.300	0.100	2.820
	Max	1.250	0.100	1.150	0.500	0.200	3.020
Symbol		E	E1	e	e1	L	θ
Spec	Min	1.500	2.650	0.950BSC	1.800	0.300	0°
	Max	1.700	2.950		2.000	0.600	8°

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