















ESD

TVS

MOS

LDO

Diode

Sensor

DC-DC

Product Specification

Domestic Part Number	RCLAMP0522P.TCT
Overseas Part Number	RCLAMP0522P.TCT
▶ Equivalent Part Number	RCLAMP0522P.TCT





Features

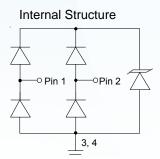
- Ultra Low Capacitance 0.5pF typical
- Low operating Voltage: 5.0 V
- Low clamping voltage
- IEC61000-4-4 (EFT) 40A (5/50ns)
- IEC61000-4-5(Lightning)5A(5/50ns)

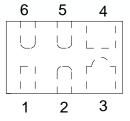
Applications

- USB 2.0
- HDMI 1.3
- SATA and eSATA
- DVI
- IEEE 1394
- PCI Express
- Portable Electronics
- Notebooks

Mechanical Characteristics

- JEDEC SLP1610P4 package
- Molding compound flammability rating: UL 94V-0





Pin	Identification
1 - 2	Input Lines
5 - 6	Output Lines (No Internal Connection)
3 - 4	Ground

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

Parameter	Symbol	Value	Unit
Peak Pulse Power (8/20µs)	Ppk	150	W
Peak Pulse Current (8/20µs)	IPP	5	А
ESD per IEC 61000-4-2 (Air) ESD per IEC 61000-4-2 (Contact)	VESD	±25 ±20	kV
Operating Temperature Range	TJ	−55 to +125	°C
Storage Temperature Range	Tstg	−55 to +150	°C



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

Parameter	Symbol	Min	Тур	Max	Unit	Test Condition
DP, DM, USB ID TVS						
Reverse Working Voltage	VRWM			5.0	V	
Breakdown Voltage	VBR	6.0			V	IT = 1mA
Reverse Leakage Current	I _R			0.5	μA	VRWM = 5.0V
Clamping Voltage	Vc			15	V	IPP = 1A (8 x 20μs pulse), any I/O pin to ground
Clamping Voltage	Vc			25	V	IPP = 5A (8 x 20μs pulse), any I/O pin to ground
Junction Capacitance	Cı		0.5	1.0	pF	VR = 0V, f = 1MHz, any I/O pin to ground



Typical Characteristics

Fig1. $8/20\mu s$ Pulse Waveform

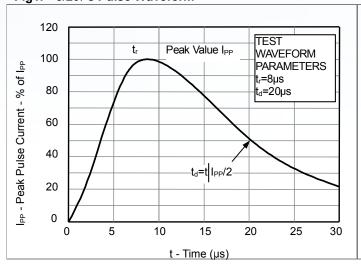


Fig2. ESD Pulse Waveform (according to IEC 61000-4-2)

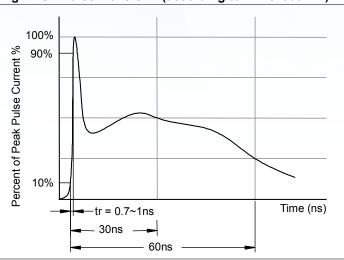
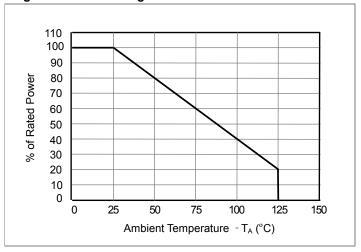
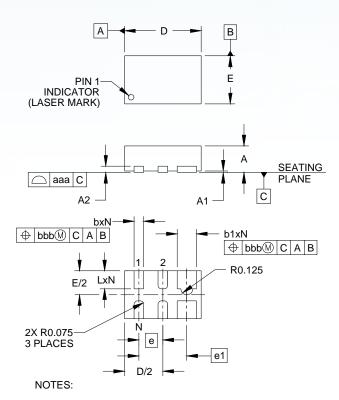


Fig3. Power Derating Curve



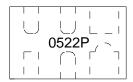


Outline Drawing - SLP1610P4



	DIMENSIONS					
DIM	INCHES			MILLIMETERS		
ווווטו	MIN	NOM	MAX	MIN	NOM	MAX
Α	.020	.023	.026	0.50	0.58	0.65
A1	0.00	.001	.002	0.00	0.03	0.05
A2	(.005)			(0.13)		
b	.006	.008	.010	0.15	0.20	0.25
b1	.014	.016	.018	0.35	0.40	0.45
D	.059	.063	.067	1.50	1.60	1.70
Е	.035	.039	.043	0.90	1.00	1.10
е	.020 BSC		0.50 BSC			
e1	.039 BSC		1.00 BSC			
L	.012	.015	.017	0.30	0.38	0.43
N	4		4			
aaa	.003		0.08			
bbb	.004		0.10			

Marking



Ordering information

Order code	Package	Base qty	Delivery mode
RCLAMP0522P	SLP1610P4	3000	Tape and reel



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