

Product data sheet

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Features

- Ultra-Low capacitance:0.35pF(typ.)
- Reverse stand-off voltage:5V
- IEC 61000-4-2 (Air): ±15KV
 IEC 61000-4-2 (Contact): ±10KV

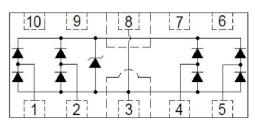
Pin Description



Applications

Schematic Diagram

- USB 3.0, USB 2.0
- HDMI 1.3/1.4, Display Port 1.3, eSATA
- Unified Display Interface (UDI)
- Digital Visual Interface (DVI)
- High speed serial interfaces



Top View

Limiting Values(T_A = 25 °C, unless otherwise specified)

Symbol	Parameter	neter Conditions		Max	Unit
	Electrostatic Discharge Voltage	IEC 61000-4-2; Contact Discharge	-	±10	kV
VESD		IEC 61000-4-2; Air Discharge	-	±15	kV
I _{PPM}	Rated Peak Pulse Current	t _P = 8/20 μs	-	2.5	А
T _A	Ambient Temperature Range	-	-55	125	°C
Tstg	Storage Temperature Range	-	-55	150	°C

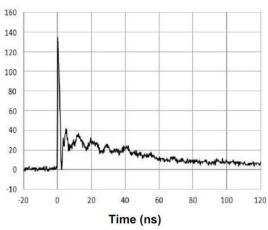


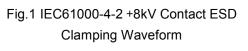


Symbol	Parameter	Conditions	Min	Тур.	Max	Unit
V_{RWM}	Reverse Working Voltage	T _A = 25 °C	-	-	5	V
V_{BR}	Breakdown Voltage	I _R = 1 mA	6	7.2	9.5	V
I _R	Reverse Leakage Current	V _{RWM} = 5V	-	0.01	1	μA
Vc	Clamping Voltage	I _{PP} =2.5A, T _P =8/20µs	-	10	-	V
		V _{ESD} =+8kV	-	20	-	V
VT	Trigger Voltage	V _{ESD} =+8kV	-	135	-	V
CJ	Junction Capacitance	V_R = 0V, f = 1 MHz, I/O to I/O	-	0.15	-	pF
		V_R = 0V, f = 1 MHz, I/O to GND	-	0.35	-	pF

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

Typical Characteristics





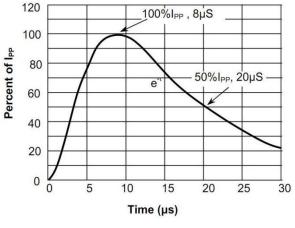


Fig.3 Pulse Waveform-8/20µs

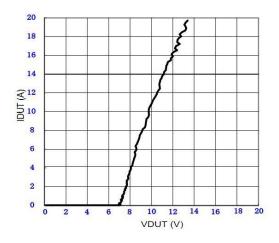
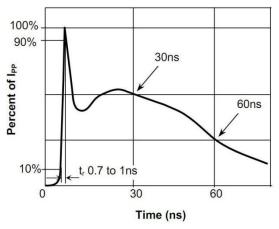


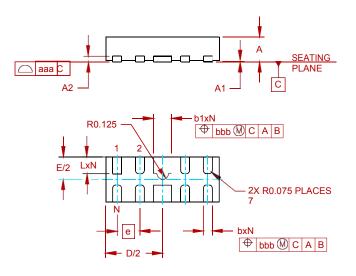
Fig.2 Transmission Line Pulse (t_P=100ns)



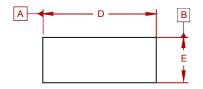




PACKAGE MECHANICAL DATA

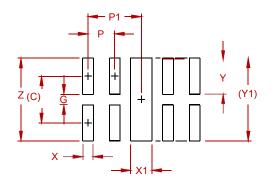


Dimensions in millimeters



		DIMENS	1	ONS			
DIM	INCHES			MILLIN	MILLIMETERS		
	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	.094	.098	.102	2.40	2.50	2.60	
Е	.035	.039	.043	0.90	1.00	1.10	
е	.020 BSC		0.50 BSC				
L	.012	.015	.017	0.30	0.38	0.425	
Ν	8		8				
aaa	.003		0.08				
bbb	.004		0.10				

Suggested Pad Layout



	DIMENSIONS			
DIM	INCHES	MILLIMETERS		
С	(.034)	(0.875)		
G	.008	0.20		
Р	.020	0.50		
P1	.039	1.00		
Х	.008	0.20		
X1	.016	0.40		
Y	.027	0.675		
Y1	(.061)	(1.55)		
Z	.061	1.55		

NOTES:

CONTROLLING DIMENSIONS ARE IN MILLIMETERS (ANGLES IN DEGREES). THIS LAND PATTERN IS FOR REFERENCE PURPOSES ONLY. CONSULT YOUR MANUFACTURING GROUP TO ENSURE YOUR COMPANY'S MANUFACTURING GUIDELINES ARE MET.

REEL SPECIFICATION

P/N	PKG	QTY
MSULC0524P	DFN2510P10	3000



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