

Product data sheet

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Features

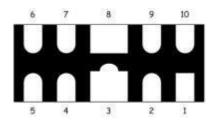
- Ultra low leakage: nA level
- Operating voltage: 5.0V
- Low clamping voltage
- Complies with following standards:
 - IEC 61000-4-2 (ESD) immunity test
 Air discharge: ±30kV
 - Contact discharge: ±25kV

USB 2.0 power and data line

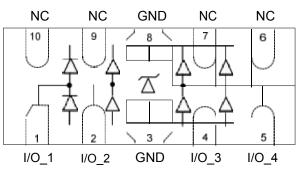
Set-top box and digital TV Digital video interface (DVI)

- IEC61000-4-4 (EFT) 40A (5/50ns)
- IEC61000-4-5 (EFT) 5A (8/20ns)
- **RoHS** Compliant

Dimensions DFN2510P10



Pin Configuration



- Notebook ComputersSIM Ports
- 10/100 Ethernet

Applications

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Mechanical Characteristics

- Package: DFN2510P10
- Lead Finish: Lead Free
- UL Flammability Classification Rating 94V-0
- Quantity Per Reel:3,000pcs
- Reel Size:7 inch

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

Parameter	Symbol	Value	Unit	
Peak Pulse Power (8/20µs)	Ррр	150	W	
ESD per IEC 61000-4-2 (Air)	V _{ESD}	±15	Kv	
ESD per IEC 61000-4-2 (Contact)	VESD	±8	rvv	
Operating Temperature Range	TJ	-55 to +125	°C	
Storage Temperature Range	T _{STJ}	-55 to +150	°C	



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

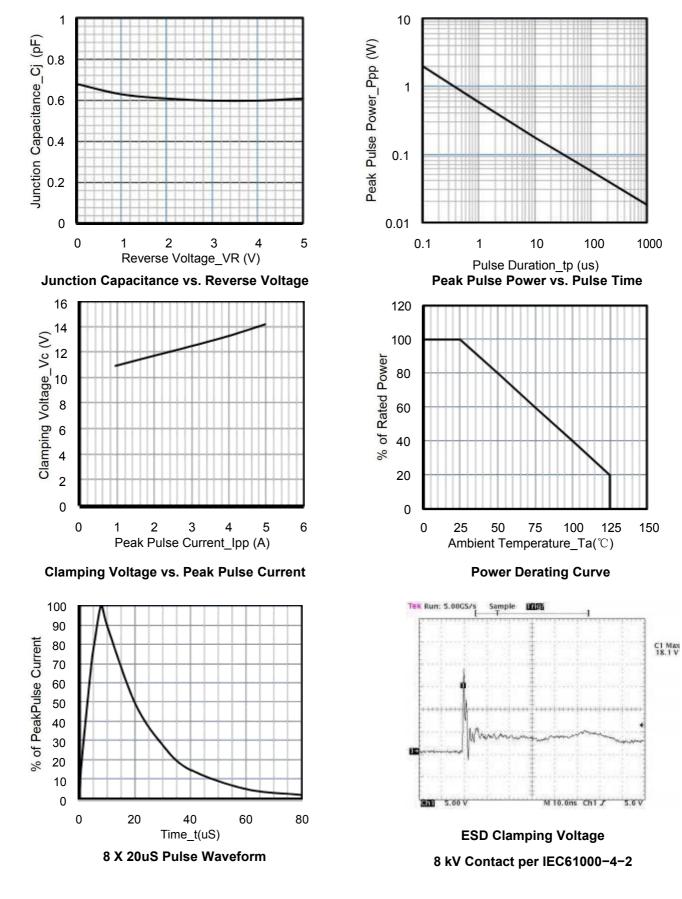
Parameter	Symbol	Value	Unit
Peak Pulse Power (8/20µs)	Ppk	150	W
Peak Pulse Current (8/20µs)	I PP	5	А
ESD per IEC 61000-4-2 (Air)	Vesd		k) (
ESD per IEC 61000-4-2 (Contact)	VESD	±25	kV
Operating Temperature Range	TJ	−55 to +125	°C
Storage Temperature Range	Tstg	−55 to +150	°C

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

Parameter	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse Working Voltage	VRWM			5	V	Any I/O pin to ground
Breakdown Voltage	Vbr	6			V	IT = 1mA, any I/O pin to ground
Reverse Leakage Current	I _R			0.5	μA	VRWM = 5V, any I/O pin to ground
Clamping Voltage	Vc			15	V	IPP = 1A (8 x 20µs pulse), any I/O pin to ground
Clamping Voltage	Vc			20	V	IPP = 5A (8 x 20µs pulse), any I/O pin to ground
Junction Capacitance	CJ		0.3	0.4	pF	VR = 0V, f = 1MHz, between I/O pins
Junction Capacitance	Сл			0.8	pF	VR = 0V, f = 1MHz, any I/O pin to ground



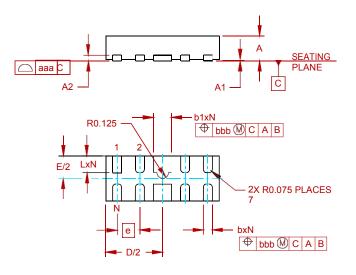
Typical Performance Characteristics (T_A=25°C unless otherwise Specified)





ULC0544P10-MS HF Semiconductor Compiance

PACKAGE MECHANICAL DATA

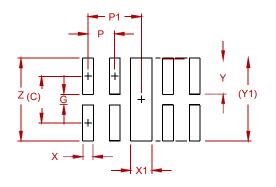


Dimensions in millimeters

A	◄ D►	В
		E

DIMENSI ONS							
DIM			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	(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	
E	.035	.039	.043	0.90	1.00	1.10	
е	.020 BSC			0.5	BSC		
L	.012	.015	.017	0.30	0.38	0.425	
N	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

	51/6	
P/N	PKG	QTY
ULC0544P10-MS	DFN2510P10	3000



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