

Product data sheet

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DFN-2510-10L

Features

- ♦ 150 Watts peak pulse power (tp = 8/20µs)
- Transient protection for high speed data lines to IEC 61000-4-2 (ESD) ±15kV (air), ±8kV (contact) IEC 61000-4-4 (EFT) 40A (5/50ns)
- Working voltages : 5V
 - Protects two or four I/O lines
- Ultra Low capacitance:0.3pf (typical between I/O channel)
- Low operating and clamping voltages
- Solid-state silicon avalanche technology

Applications

- High Definition Multi-Media Interface (HDMI)
- USB 1.1/2.0/3.0/OTG
- IEEE 1394 Firewire Ports
- Projection TV Monitors and Flat Panel Displays
- Notebook Computers
- Set Top Box

Maximum Rating @ Ta=25°C unless otherwise specified

Symbol	Parameter	Ratings	Units
Ррк	Peak Pulse Power (tp = 8/20µs)	150	Watts
Τι	Lead Soldering Temperature	260(10sec.)	°C
TJ	Operating Temperature	-55 to +125	°C
Тѕтс	Storage Temperature	-55 to +150	°C





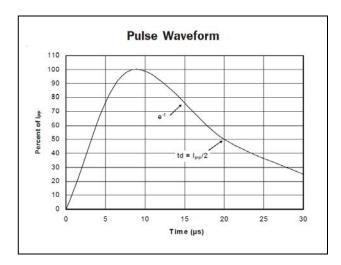
Electrical Characteristics@ Ta=25 $^\circ\!\!\mathbb{C}$ unless otherwise

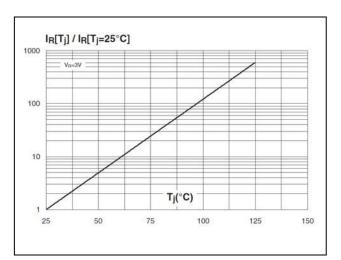
Symbol	Parameter	Conditions	Min.	Тур.	Max.	Units
VRWM	Reverse Working Voltage	Any I/O to Ground			5.0	V
VBR	Reverse Breakdown Voltage	l⊤= 1mA, Any I/O to Ground	6.0			V
IR	Reverse Leakage Current	$V_{\rm RWM} = 5V,$			1	
IR	Neverse Leakage Current	Any I/O to Ground			1	μA
VF	Diode Forward Voltage	l⊧ = 15mA		0.85	1.2	V
		I _{PP} = 1A, tp =8/20μs,			9.8	V
Vc	Clamping Voltage	any I/O pin to Ground			3.0	v
vc	Clamping voltage	I _{PP} = 3A, tp =8/20µs,			15	V
		any I/O pin to Ground			15	v
		V _R = 0V, f = 1MHz,		0.25	0.3	nΕ
CJ	Junction Capacitance	between I/O pins		0.25	0.5	pF
CJ		$V_R = 0V$, f = 1MHz,		0.5	0.6	nΕ
		any I/O pin to Ground		0.5	0.6	pF

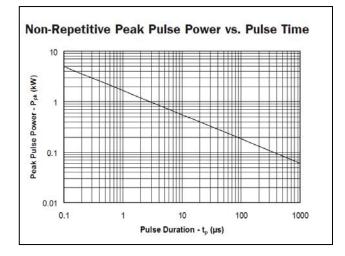


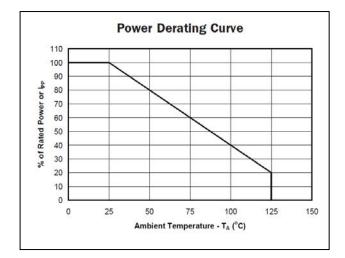


Typical Characteristics@ Ta=25 $^{\circ}$ C unless otherwise specified









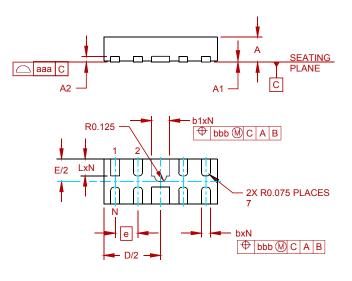


ESD5344D-MS HF 🐼

Semiconductor

Compiance

PACKAGE MECHANICAL DATA

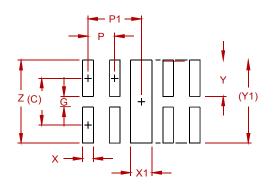


Dimensions in millimeters

A	► D	В
		T E

DIMENSI ON						
DIM	INCHES		MILLIMETERS			
	MIN	NOM	MAX	MIN	NOM	MAX
А	.020	.023	.026	0.50	0.58	0.65
A1	0.00	.001	.002	0.00	0.03	0.05
A2	(.0	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.		2.60
E	.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
N		8			8	
aaa	.003		0.08			
bbb	.004		.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
ESD5344D-MS	DFN-2510-10L	3000



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