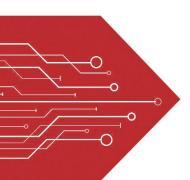
MSKSEMI















ESD

TVS

TSS

MOV

GDT

PLED

Brodnet data speet

www.msksemi.com

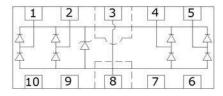


Features

150 Watts peak pulse power (tp = $8/20\mu$ s) 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: 3.3V 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 avalanchetechnology



DFN2510P10E

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
P _{PK}	Peak Pulse Power (tp = 8/20µs)		Watts
T _L	Lead Soldering Temperature	260(10sec.)	${\mathbb C}$
TJ	Operating Temperature	-55 to +125	${\mathbb C}$
T _{STG}	Storage Temperature	-55 to +150	$^{\circ}$

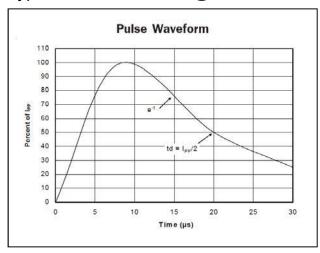


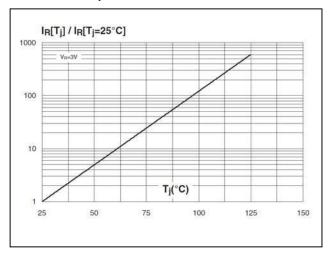


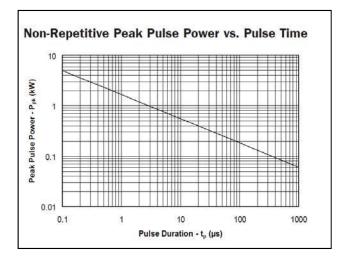
Electrical Characteristics@ Ta=25°C unless otherwise

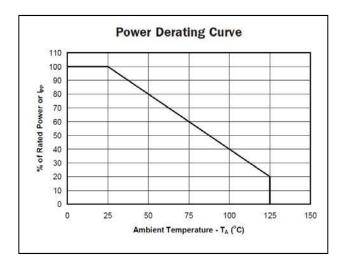
Symbol	Parameter	Conditions	Min.	Тур.	Max.	Units
V_{RWM}	Reverse Working Voltage	Any I/O to Ground			3.3	V
V_{BR}	Reverse Breakdown Voltage	I_T = 1mA, Any I/O to Ground	4.5			V
I _R	Reverse Leakage Current	V _{RWM} = 5V, Any I/O to Ground			1	μΑ
V _F	Diode Forward Voltage	I _F = 15mA		0.85	1.2	V
V	Clamping Voltage	I_{PP} = 1A, tp =8/20µs, any I/O pin to Ground			9.8	V
Vc	Clamping Voltage	I_{PP} = 5A, tp =8/20µs, any I/O pin to Ground			15	V
Сл	Junction Capacitance	V _R = 0V, f = 1MHz, between I/O pins		0.25	0.3	pF
		V_R = 0V, f = 1MHz, any I/O pin to Ground		0.5	0.6	pF

Typical Characteristics@ Ta=25°C unless otherwise specified



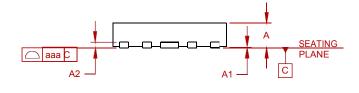


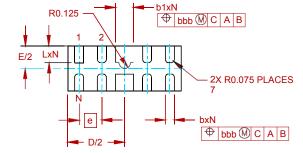




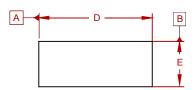


PACKAGE MECHANICAL DATA



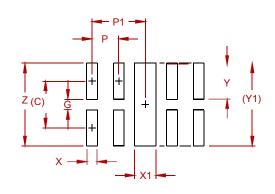


Dimensions in millimeters



DIMENSI ONS						
DIM	INCHES			MILLIMETERS		
J	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
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		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	
Υ	.027	0.675	
Y1	(.061)	(1.55)	
Z	.061	1.55	

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
AZ1143-04F-MS	DFN2510P10E	3000

Semiconductor

Compiance

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