MSKSEMI















ESD

TVS

TSS

MOV

GDT

PLED

Broduct data sheet



Features

- Solid-state silicon-avalanche technology
- Low operating and clamping voltage
- Up to four I/O Lines of Protection
- Ultra low capacitance: 0.5pF typical(I/O to I/O)
- Low Leakage
- Low operating voltage:5V
- Flow-Through design

IEC COMPATIBILITY (EN61000-4)

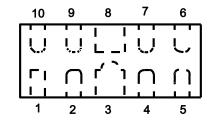
- IEC 61000-4-2 (ESD) ±15kV (air), ±8kV (contact)
- IEC 61000-4-4 (EFT) 40A (5/50ns)
- IEC 61000-4-5 (Lightning) 5A (8/20μs)

Mechanical Characteristics

- DFN2510-10
- Molding compound flammability rating: UL 94V-0
- Marking: Marking Code
- Packaging: Tape and Reel
- RoHS/WEEE Compliant



Schematic & PIN Configuration

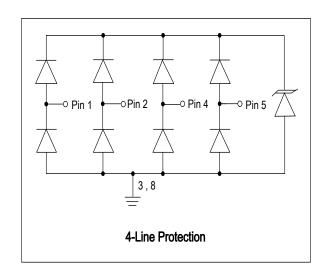


Pin	Identificaion
1,2,4,5	Input Lines
6,7,9,10	Output Lines (No Internal Connection)
3,8	Ground

Applications

- Digital Visual Interface(DVI)
- MDDI Ports
- DisplayPortTM Interface
- PCI Express
- High Definition Multi-Media Interface(HDMI)
- eSATA Interfaces

Circuit Diagram







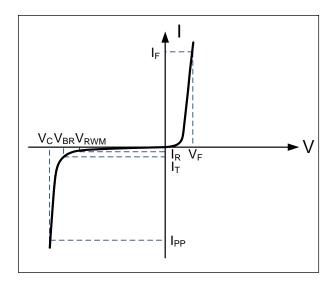


Absolute Maximum Rating

Rating	Symbol	Value	Units
Peak Pulse Power (t _p =8/20μs)	P _{PP}	150	Watts
Peak Pulse Current (t _p =8/20µs)	I _{pp}	5	А
ESD per IEC 61000-4-2(Air) ESD per IEC 61000-4-2(contact)	V _{ESD}	+/-17 +/-12	kV
Operating Temperature	TJ	-55 to + 125	°C
Storage Temperature	T _{STG}	-55 to +150	°C

Electrical Parameters (T=25°C)

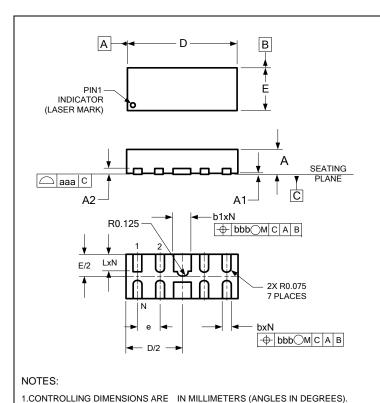
Symbol	Parameter		
I PP	Maximum Reverse Peak Pulse Current		
Vc	Clamping Voltage @ IPP		
V _{RWM}	Working Peak Reverse Voltage		
IR	Maximum Reverse Leakage Current @ VRWM		
V _{BR}	Breakdown Voltage @ IT		
lτ	Test Current		
lF	Forward Current		
VF	Forward Voltage @ I _F		

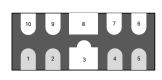


Electrical Characteristics

Parameter	Symbol	Conditions	Minimum	Typical	Maximum	Units
Reverse Stand-Off Voltage	V_{RWM}	Any I/O pin to ground			5.0	V
Reverse Breakdown Voltage	V_{BR}	$I_t = 1mA$ Any I/O pin to ground	6.0			V
Reverse Leakage Current	I _R	V _{RWM} = 5V, T=25°C Any I/O pin to ground			1	μΑ
Clamping Voltage	Vc	I_{pp} =5A, t_p =8/20 μ s Any I/O pin to ground			15	V
		V _R = 0V, f = 1MHz I/O pin to GND			0.8	pF
Junction Capacitance	C _j	V _R = 0V, f = 1MHz Between I/O pins		0.3		pF

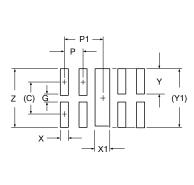






DFN2510-10

	DIMENSIONS					
DIM	INCHES			MILLIMETERS		
DIM	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	(0.005)			(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	2.60
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
N	8				8	
aaa	0.003				0.08	
bbb	0.004				0.10	



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	

NOTES:

- 1.CONTROLLING DIMENSIONS ARE IN MILLIMETERS (ANGLES IN DEGREES).
- 2. THIS LAND PATTERN IS FOR REFERENCE PURPOSES ONLY.
- CONSULT YOUR MANUFACTURING TO ENSURE YOUR
- COMPANYS MANNUFACTURING GUIDELINES ARE MET.



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