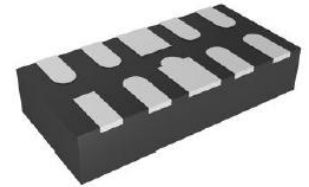


4-Line Ultra-low Capacitance TVS Diode Array



APPLICATION

- ◆ HDMI 1.3 & 1.4, USB 2.0 & 3.0 and MDDI ports
- ◆ Monitors and flat panel displays
- ◆ Set-top box and Digital TV
- ◆ Video graphics cards
- ◆ Digital Video Interface (DVI)
- ◆ Notebook Computers
- ◆ PCI Express and Serial SATA Ports



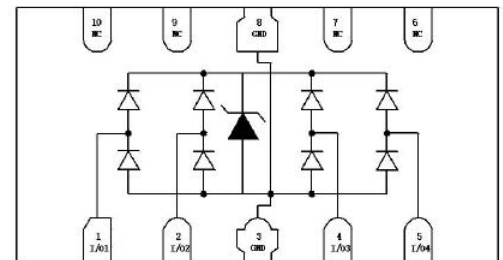
IEC COMPATIBILITY

Package: DFN2510-10

- ◆ IEC61000-4-2 (ESD) $\pm 15\text{kV}$ (air), $\pm 8\text{kV}$ (contact)
- ◆ IEC61000-4-4 (EFT) 40A (5/50ns)
- ◆ IEC61000-4-5 (Lightning) 5A (8/20 μs)

FEATURES

- Ultra low capacitance: 0.5pF typical (I/O to I/O)
- Working voltage: 3.3V-5V
- Low clamping voltage
- Up to 4 lines protects



Electrical Characteristics

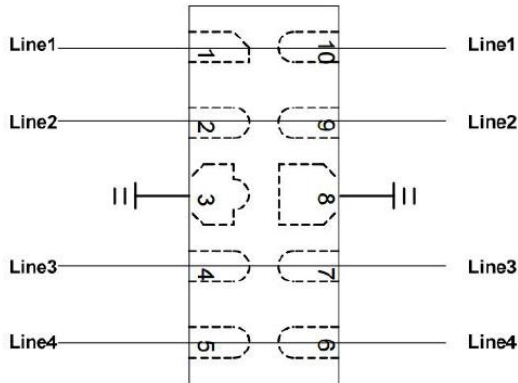
Parameter	Symbol	Value
ESD per IEC 61000-4-2 (Air)	VESD	$\pm 15\text{kV}$
ESD per IEC 61000-4-2 (Contact)		$\pm 8\text{kV}$
Operating Temperature Range	TJ	-55 to +125 °
Storage Temperature Range	Tstg	-55 to +150 °C

Electrical Characteristics

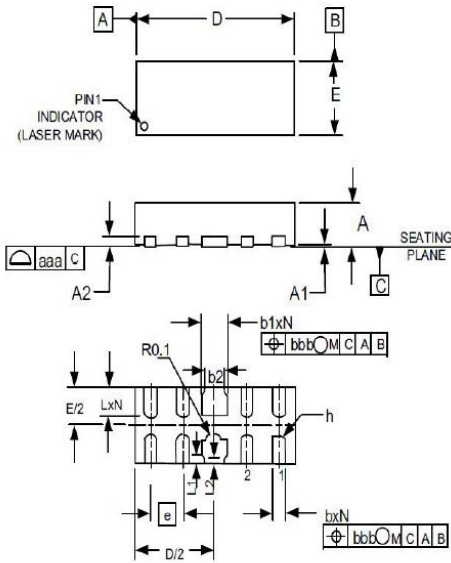
Part Number	VRWM	VBR	IR (max)	Co Max value	Vc @1A Max	Vc @ A Max	Ipp@8/20us	Ppp 8/20us	Delivery Time
	V	V	(μA)	pF	V	V	A max	W	Days
HAU3304PC	3.3	3.5	0.5	0.8	6.5	10	5	50	7days
HAU0504PC	5	6	0.5	0.5	10	15	4	60	7days
HAU0524PC	5	6	1	0.8	9	15	5	100	7days
HAU0544PC	5	5.8	0.5	0.8	8.5	10	8	80	7days

Typical Application

The HAU3304PC is designed for easy PCB layout by allowing the traces to run straight through the device. The PCB traces could be used to connect the pin pairs for each line. For example, line 1 enters at pin 1 and exits at pin 10 and the PCB trace connects Pin 1 and Pin 10 together. Ground is connected at Pin 3 and Pin 8.



Package mechanical data



SYM	DIMENSIONS					
	MILLIMETERS			INCHES		
	MIN	NOM	MAX	MIN	NOM	MAX
A	0.45	0.50	0.55	.017	.020	.022
A1	0.000	0.001	0.002	0.00	0.02	0.05
A2	(0.15)			(.006)		
b	0.10	0.20	0.25	.006	.008	.010
b1	0.35	0.40	0.45	.014	.016	.018
b2	0.20	0.25	0.45	.005	.010	.018
D	2.45	2.50	2.55	.096	.098	.100
E	0.95	1.00	1.05	.037	.039	.041
e	0.50 BSC			.020 BSC		
L	0.35	0.40	0.45	.014	.016	.018
L1	0.00	0.075	0.10	.000	.003	.004
L2	0.00	0.05	0.05	.000	.002	.003
h	0.00	0.12	0.15	.000	.005	.006
h	0.07	0.12	0.17	0.003	0.005	0.007
N	8			8		
aaa	0.08			0.003		
Bbb	0.10			0.004		

Ordering Information

Part Number	Qty per Reel	Reel Size	Package	Delivery Time
HAUxxx4PC	3000pcs	7inch	DFN2510-10	7days