

### 4-Line Low Capacitance TVS Diode Array



#### APPLICATION

- ◆ LVDS Interfaces
- ◆ 10/100/1000 Ethernet
- ◆ Notebooks, Desktops, Servers
- ◆ Networking Equipment
- ◆ Switching Systems
- ◆ Audio/Video Inputs

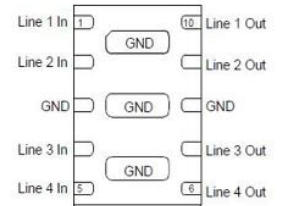
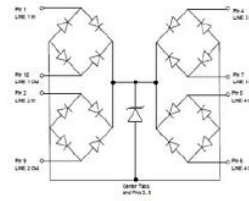
#### IEC COMPATIBILITY

Package: DFN3020-10

- ◆ IEC61000-4-2 (ESD) ±30kV (air), ±30kV (contact)
- ◆ IEC61000-4-4 (EFT) 40A (5/50ns)
- ◆ IEC61000-4-5 (Lightning) 25A-40A (8/20µs)

#### FEATURES

- ◆ Low capacitance: 2.0pF typical (I/O to I/O)
- ◆ Ultra low leakage: nA level
- ◆ Ultra low operating voltage: 2.5V
- ◆ Low clamping voltage
- ◆ Protects two line pairs



Pin Schematic

#### Electrical Characteristics

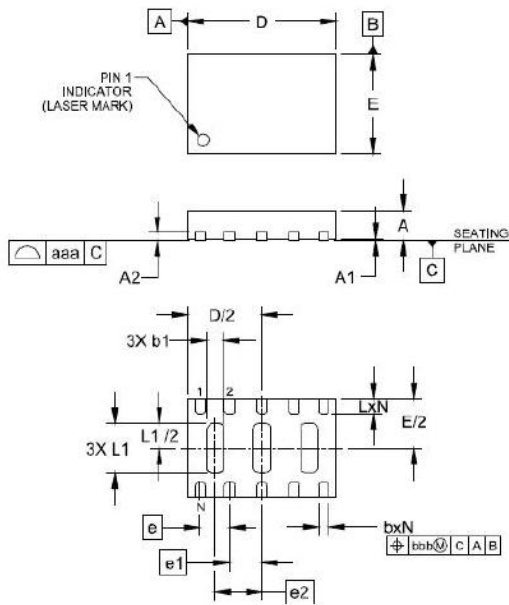
Parameter	Symbol	Value
ESD per IEC 61000-- (Air)	<b>VESD</b>	<b>±30kV</b>
ESD per IEC 61000-- (Contact)		<b>±30kV</b>
Operating Temperature Range	<b>TJ</b>	<b>-55 to +125 °</b>
Storage Temperature Range	<b>Tstg</b>	<b>-55 to +150 °C</b>

#### 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
HAL0214P9	2.5	2.7	0.5	5	4.5	25	40	1000	7days
HAL3314P9	3.3	3.5	0.5	5	5.5	25	40	1000	7days
HAL0514P9	5	6	0.5	5	10	20	25	500	7days

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Package Mechanical Data



SYM	DIMENSIONS		
	MILLIMETERS		
	MIN	NOM	MAX
A	0.50	0.60	0.65
A1	0.00	0.03	0.05
A2	(0.15)		
b	0.15	0.20	0.25
b1	0.25	0.35	0.45
D	2.90	3.00	3.10
E	1.90	2.00	2.10
e	0.60BSC		
e1	0.65BSC		
e2	0.95BSC		
L	0.25	0.30	0.35
L1	0.95	1.00	1.05
N	10		

Ordering Information

Part Number	Qty per Reel	Reel Size	Package	Delivery Time
HALxx14P9	3000pcs	7inch	DFN3020-10	7days

Specifications are subject to change without notice

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