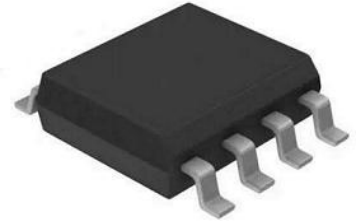


## 6-Line Low Capacitance TVS Diode Array



### APPLICATION

- ◆ Cellular Handsets and Accessories
- ◆ Personal Digital Assistants
- ◆ Notebooks and Handhelds
- ◆ Digital Cameras
- ◆ Peripherals
- ◆ Audio Players
- ◆ Keypads, Side Keys, LCD Displays



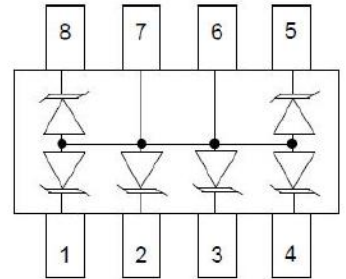
### IEC COMPATIBILITY

Package: SO-8

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

### FEATURES

- ◆ Low capacitance: 8pF typical (I/O to GND)
- ◆ Ultra low leakage: nA level
- ◆ Low operating voltage: 5V
- ◆ Low clamping voltage
- ◆ Up to 6 lines protects
- ◆ JEDEC SO-8 package



### Electrical Characteristics

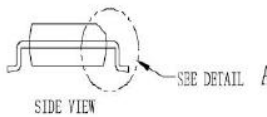
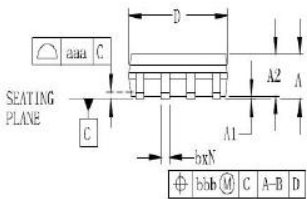
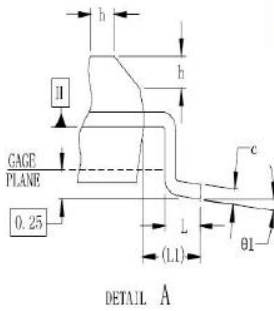
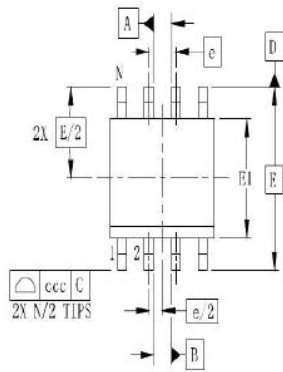
Parameter	Symbol	Value	Unit
Peak Pulse Power (tp=8/20 $\mu$ s waveform)	$P_{ppp}$	25	W
Peak Pulse Current (8/20 $\mu$ s)	$I_{pp}$	2	A
ESD per IEC 61000-4-2 (Air)	$V_{ESD}$	$\pm 15$	kV
ESD per IEC 61000-4-2 (Contact)		$\pm 8$	
Operating Temperature Range	$T_J$	-55 to +125	$^{\circ}\text{C}$
Storage Temperature Range	$T_{stg}$	-55 to +150	$^{\circ}\text{C}$

### 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	( $\mu\text{A}$ )	pF	V	V	A max	W	Days
HAL2814S8	5	6	0.1	10	10.5	12.5	2	25	7days

6-Line Low Capacitance TVS Diode Array

Package Mechanical Data



SYM	DIMENSIONS					
	MILLIMETERS			INCHES		
	MIN	NOM	MAX	MIN	NOM	MAX
A	1.35		1.75	0.053		0.069
A1	0.10		0.25	0.004		0.010
A2	1.25		1.65	0.049		0.065
b	0.31		0.51	0.012		0.020
c	0.17		0.25	0.007		0.010
D	4.80	4.90	5.00	0.189	0.193	0.197
E1	3.80	3.90	4.00	0.150	0.154	0.157
E	6.00BSC			0.236BSC		
e	1.27BSC			0.050BSC		
h	0.25		0.50	0.010		0.020
L	0.40	0.72	1.04	0.016	0.028	0.041
L1	(1.04)			(0.041)		
N	8			8		
Ø1	0		8	0		8
	0.10			0.004		
	0.25			0.010		
H <sub>E</sub>	0.20			0.008		

Ordering Information

Part Number	Qty per Reel	Reel Size	Package	Delivery Time
<b>HAL0516S8</b>	2500pcs	13inch	SO-8	7days

Specifications are subject to change without notice

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