

## 1-Line Uni-directional Low Capacitance TVS Diode Array

### APPLICATION

- ◆ Cellular Handsets and Accessories
- ◆ Personal Digital Assistants
- ◆ Notebooks and Handhelds
- ◆ Portable Instrumentation
- ◆ Digital Cameras
- ◆ Audio Players
- ◆ Keypads, Side Keys, USB 2.0, LCD Displays

DFN-1006



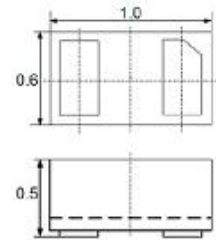
### IEC COMPATIBILITY

Package: DFN1006-2

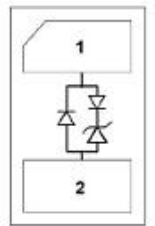
- ◆ IEC61000-4-2 (ESD)  $\pm 25\text{kV}$  (air),  $\pm 20\text{kV}$  (contact)
- ◆ IEC61000-4-5 (Lightning) 5A (8/20 $\mu\text{s}$ )

### FEATURES

- ◆ Ultra Small Packaging 1.0x0.6x0.5mm
- ◆ Ultra low capacitance: 0.6pF typical
- ◆ Protects one data or power line
- ◆ Working voltage: 5V
- ◆ Low clamping voltage
- ◆ 2-pin leadless package



Package Dimensions



Circuit and Pin Schematic

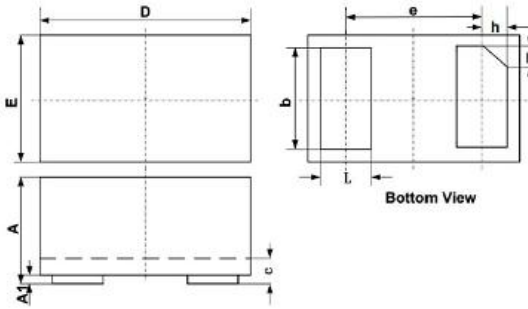
### Electrical Characteristics

Parameter	Symbol	Value	Unit
Peak Pulse Power (tp=8/20 $\mu\text{s}$ waveform)	$P_{pp}$	80	W
Peak Pulse Current (8/20 $\mu\text{s}$ )	$I_{pp}$	5	A
ESD per IEC 61000-4-2 (Air)	VESD	$\pm 25$	kV
ESD per IEC 61000-4-2 (Contact)		$\pm 20$	
Operating Temperature Range	$T_J$	-55 to +125	$^{\circ}\text{C}$
Storage Temperature Range	$T_{stg}$	-55 to +150	$^{\circ}\text{C}$

Part Number	VRWM	VBR	IR (max)	Co Max value	Vc @1A Max	Vc @5A Max	Ppp 8/20us	Delivery Time
	V	V	( $\mu\text{A}$ )	pF	V	V <sub>max</sub>	W	Days
<b>HAH0551P1</b>	5	5.6	0.5	0.8	10	16	80	7days

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### Package Mechanical Data



SYM	DIMENSIONS					
	MILLIMETERS			INCHES		
	MIN	NOM	MAX	MIN	NOM	MAX
A	0.45	0.50	0.55	0.018	0.020	0.022
A1	0.00	0.02	0.05	0.000	0.001	0.002
b	0.45	0.50	0.55	0.018	0.020	0.022
c	0.12	0.15	0.18	0.005	0.006	0.007
D	0.95	1.00	1.05	0.037	0.039	0.041
e	0.65 BSC			0.026 BSC		
E	0.55	0.60	0.65	0.022	0.024	0.026
L	0.20	0.25	0.30	0.008	0.010	0.012
h	0.07	0.12	0.17	0.003	0.005	0.007

### Ordering Information

Part Number	Qty per Reel	Reel Size	Package	Delivery Time
<b>HAH0551P1</b>	10000pcs	7inch	DFN1006-2	7days