

4-Line Ultra Low Capacitance TVS Diode Array

APPLICATION

- ◆ High Speed Line :USB1.0/2.0, VGA, DVI.SDI
- ◆ USB 2.0 and USB 3.0 Ports
- ◆ Digital Video Interface (DVI)
- ◆ Monitor and Flat Panel Displays
- ◆ PCI Express and Serial SATA Ports
- ◆ Gigabit Ethernet
- ◆ IEEE 1394 Firewire Ports
- ◆ Consumer products (STB, DVD, DSC, DVC)



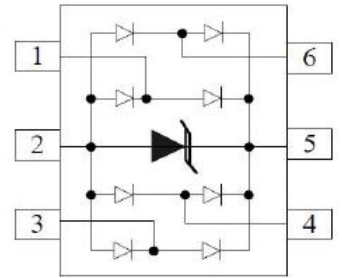
IEC COMPATIBILITY

Package: SOT-563

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

FEATURES

- ◆ Ultra low capacitance: 0.3pF typical (I/O to I/O)
- ◆ Ultra low leakage: nA level
- ◆ Working voltage: 5V
- ◆ Low clamping voltage
- ◆ Up to 4 data lines and one power line protects



Electrical Characteristics

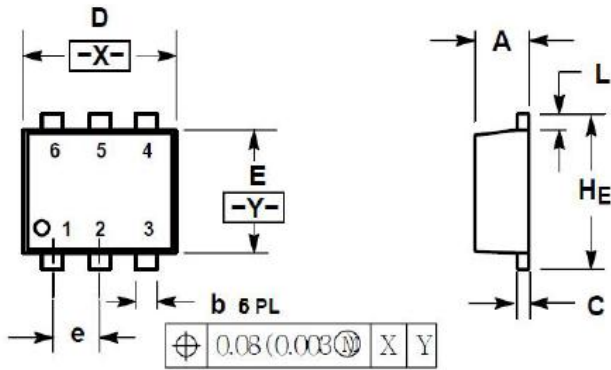
Parameter	Symbol	Value	Unit
Peak Pulse Power ($t_p=8/20\mu s$ waveform)	P_{ppp}	100	W
Peak Pulse Current (8/20 μs)	I_{pp}	5	A
ESD per IEC 61000-4-2 (Air)	V_{ESD}	± 25	kV
ESD per IEC 61000-4-2 (Contact)		± 20	
Operating Temperature Range	T_J	-55 to +125	$^{\circ}C$
Storage Temperature Range	T_{stg}	-55 to +150	$^{\circ}C$

Electrical Characteristics

Part Number	VRWM	VBR	IR (max)	Co Max value	Vc @1A Max	Vc @ A Max	$I_{pp}@8/20\mu s$	Ppp 8/20 μs	Delivery Time
	V	V	(μA)	pF	V	V	A max	W	Days
HAH0504S6	5	6	0.8	0.8	15	20	5	100	7days

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Package Mechanical Data



SYM	DIMENSIONS					
	MILLIMETERS			INCHES		
	MIN	NOM	MAX	MIN	NOM	MAX
A	0.50	0.55	0.60	0.020	0.021	0.023
b	0.17	0.22	0.27	0.007	0.009	0.011
C	0.08	0.12	0.18	0.003	0.005	0.007
D	1.50	1.60	1.70	0.059	0.062	0.066
E	1.10	1.20	1.30	0.043	0.047	0.051
e	0.5BSC			0.02BSC		
L	0.10	0.20	0.30	0.004	0.008	0.012
HE	1.50	1.60	1.70	0.059	0.062	0.066

Ordering Information

Part Number	Qty per Reel	Reel Size	Package	Delivery Time
HAH0504S6	3000pcs	7inch	SOT-563	7days

Specifications are subject to change without notice

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