

3-Line Ultra Low Capacitance TVS Diode Array

APPLICATION

- ◆ Cellular Handsets and Accessories
- ◆ Display Ports
- ◆ MDDI Ports
- ◆ USB Ports
- ◆ Digital Visual Interface (DVI)
- ◆ PCI Express and Serial SATA Ports



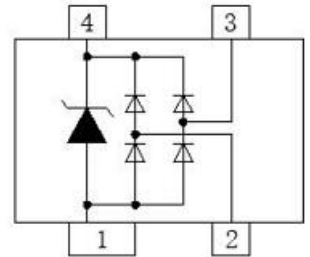
IEC COMPATIBILITY

Package: SOT-143

- ◆ IEC61000-4-2 (ESD) $\pm 25\text{kV}$ (air), $\pm 20\text{kV}$ (contact)
- ◆ IEC61000-4-4 (EFT) 40A (5/50ns)
- ◆ IEC61000-4-5 (Lightning) 5A (8/20 μs)

FEATURES

- ◆ Ultra low capacitance: 0.3pF typical
- ◆ Working voltage: 5V
- ◆ Low clamping voltage
- ◆ Protects two data lines and one power line



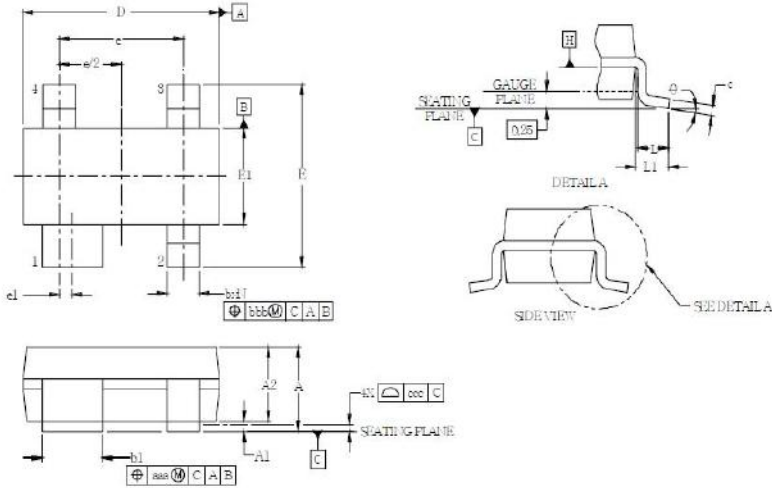
Electrical Characteristics

Parameter	Symbol	Value	Unit
Peak Pulse Power (tp=8/20 μs waveform)	P_{pp}	75	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	$^{\circ}\text{C}$
Storage Temperature Range	T_{stg}	-55 to +150	$^{\circ}\text{C}$

Part Number	VRWM	VBR	IR (max)	Co Max value	Vc @1A Max	Vc @ A Max	$I_{pp}@8/20\mu\text{s}$	Ppp 8/20 μs	Delivery Time
	V	V	(μA)	pF	V	V	A max	W	Days
HAH0503S1	5	6	0.5	0.8	10	15	5	75	7days

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Package Mechanical Data



SYM	DIMENSIONS		
	MILLIMETERS		
	MIN	NOM	MAX
A	0.80	-	1.22
A1	0.013	-	0.15
A2	0.75	0.90	1.07
b	0.30	-	0.51
b1	0.76	-	0.94
c	0.08	-	0.20
D	2.80	2.90	3.04
E	2.10	2.37	2.64
E1	1.20	1.30	1.40
e	1.92BSC		
e1	0.20BSC		
L	0.40	0.50	0.60
L1	(0.54)		
N	4		
θ	0°	-	8°

Ordering Information

Part Number	Qty per Reel	Reel Size	Package	Delivery Time
HAH0503S1	3000pcs	7inch	SOT-143	7days

Specifications are subject to change without notice

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