

2-Line Ultra Low Capacitance TVS Diode Array



APPLICATION

- ◆ Mobile Display Digital Interface (MDDI)
- ◆ USB 2.0
- ◆ HBT Power Amplifier Protection
- ◆ Infiniband Transceiver Protection
- ◆ Firewire Ports



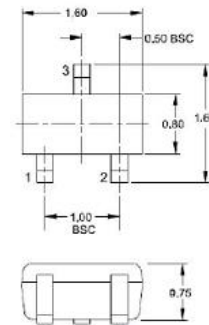
IEC COMPATIBILITY

Package: SOT-523

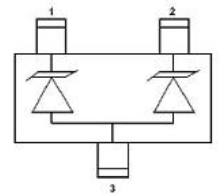
- ◆ IEC61000-4-2 (ESD) $\pm 15\text{kV}$ (air), $\pm 8\text{kV}$ (contact)
- ◆ IEC61000-4-5 (Lightning) 5A (8/20 μs)

FEATURES

- ◆ Ultra low capacitance: 0.3pF typical (I/O to I/O)
- ◆ Ultra low leakage: nA level
- ◆ Low operating voltage: 5V
- ◆ Low clamping voltage
- ◆ Up to 2 data lines protects
- ◆ JEDEC SOT-523 package



SOT-523 outline



Circuit and Pin Schematic

Electrical Characteristics

| Parameter | Symbol | Value | Unit |
|--|------------------|-------------|------|
| Peak Pulse Power(tp=8/20uS waveform) | P _{PPP} | 90 | W |
| Peak Pulse Current(tp=8/20uS waveform) | 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 | °C |
| Storage Temperature Range | T _{stg} | -55 to +150 | °C |

Electrical Characteristics

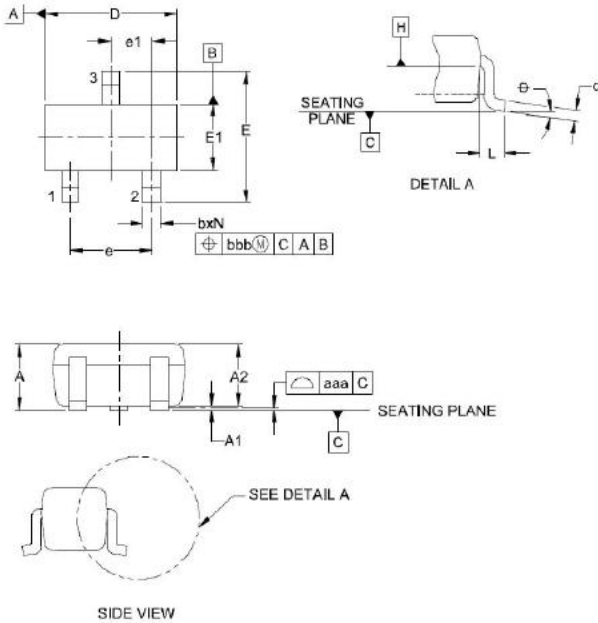
| Part Number | VRWM | VBR | IR (max) | Co Max value | Vc @1A Max | Vc @ A Max | Ipp@8/20us | Ppp 8/20us | Delivery Time |
|-------------|------|-----|----------|--------------|------------|------------|------------|------------|---------------|
| | V | V | (uA) | pF | V | V | A max | W | Days |
| HAH0512S4 | 5 | 6 | 0.5 | 0.8 | 9 | 16 | 5 | 90 | 7days |

Specifications are subject to change without notice

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Package Mechanical Data



| SYM | DIMENSIONS | | | | | |
|-----|-------------|------|------|---------|------|------|
| | MILLIMETERS | | | INCHES | | |
| | MIN | NOM | MAX | MIN | NOM | MAX |
| A | 0.60 | - | 0.90 | .023 | - | .035 |
| A1 | 0.00 | - | 0.10 | .000 | - | .004 |
| A2 | 0.60 | 0.75 | 0.80 | .023 | .030 | .031 |
| b | 0.15 | - | 0.30 | .0005 | - | .012 |
| c | 0.10 | - | 0.20 | .003 | - | .008 |
| D | 1.50 | 1.60 | 1.70 | .059 | .063 | .067 |
| E | 1.45 | 1.60 | 1.75 | .057 | .063 | .069 |
| E1 | 0.75 | 0.80 | 0.85 | .029 | .031 | .033 |
| e | 1.00BSC | | | .039BSC | | |
| e1 | 0.50BSC | | | .020BSC | | |
| L | (0.22) | | | (.009) | | |
| N | 3 | | | 3 | | |

Ordering Information

| Part Number | Qty per Reel | Reel Size | Package | Delivery Time |
|------------------|--------------|-----------|---------|---------------|
| HAH0512S4 | 3000pcs | 7inch | SOT-523 | 7days |

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