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FSA6157 Low- R_{ON} SPDT (0.8 Ω) Negative-Swing Audio or Video Switch

Features

- 0.8 Ω Typical On Resistance (R_{ON}) for +2.7V Supply
- 0.45 Ω Maximum R_{ON} Flatness for +2.7V Supply
- -3db Bandwidth: > 50MHz
- Low I_{CC} Current Over an Expanded Control Input Range
- Packaged in Pb-free 6-Lead MicroPak™ (1.0 x 1.4mm)
- Power-Off Protection on All I/O Ports
- Broad V_{CC} Operating Range: 1.65 to 4.3V
- HBM JEDEC: JESD22-A114
 - I/O to GND: 12kV
- Power to GND: 16kV

Applications

- Cell Phone, PDA, Digital Camera, and Notebook
- LCD Monitor, TV, and Set-top Box

Description


The FSA6157 is a high-performance, Single Pole Double Throw (SPDT) analog switch that features a low R_{ON} of 0.8 Ω (typical) at 2.7V supply. The FSA6157 operates over a wide V_{CC} range of 1.65V to 4.3V and is designed for break-before-make operation. The select input is TTL-level compatible.

The FSA6157 features very low quiescent current even when the control voltage is lower than the V_{CC} supply. This feature suits mobile handset applications by allowing direct interface with baseband processor general-purpose I/Os with minimal battery consumption.

IMPORTANT NOTE:

For additional performance information, please contact analogswitch@fairchildsemi.com.

Ordering Information

| Part Number | Top Mark |  Eco Status | Package Description |
|-------------|----------|--|---|
| FSA6157L6X | GT | Green | 6-Lead, MicroPak™, 1.0mm wide, JEDEC MO-255 |

 For Fairchild's definition of Eco Status, please visit: http://www.fairchildsemi.com/company/green/rohs_green.html.

Analog Symbol

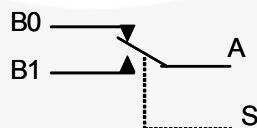


Figure 1. FSA6157

Pin Assignments

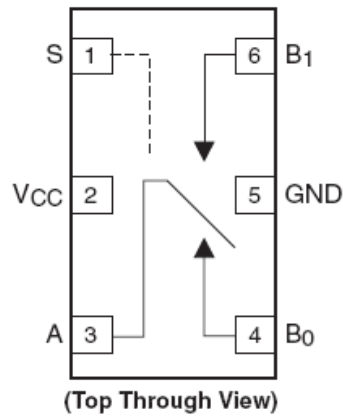


Figure 2. Pin Assignments for 6-Lead MicroPak™

Pin Descriptions

| Name | Description |
|------------------------------------|-------------------|
| A, B ₀ , B ₁ | Data Ports |
| S | Switch Select Pin |

Truth Table

| Control Input, S | Function |
|------------------|-------------------------------|
| LOW | B ₀ connected to A |
| HIGH | B ₁ connected to A |

Absolute Maximum Ratings

Stresses exceeding the absolute maximum ratings may damage the device. The device may not function or be operable above the recommended operating conditions and stressing the parts to these levels is not recommended. In addition, extended exposure to stresses above the recommended operating conditions may affect device reliability. The absolute maximum ratings are stress ratings only.

| Symbol | Parameter | | Min. | Max. | Units |
|---------------------|---|----------------|------------------------|------|-------|
| V _{CC} | Supply Voltage | | -0.5 | 4.6 | V |
| V _{SW} | Switch I/O Voltage ⁽¹⁾ | B0, B1, A Pins | V _{CC} - 5.5V | 4.6 | V |
| V _{SW-SW} | Switch I/O to Switch I/O Voltage Delta (Off State) ⁽¹⁾ | B0, B1, A Pins | | 5.5 | V |
| V _{CNTRL} | Control Input Voltage ⁽¹⁾ | S | -0.5 | 4.6 | V |
| I _{IK} | Input Clamp Diode Current | | | -50 | mA |
| I _{SW} | Switch I/O Current (Continuous) | | | 350 | mA |
| I _{SWPEAK} | Peak Switch Current (Pulsed at 1ms Duration, <10% Duty Cycle) | | | 500 | mA |
| T _{STG} | Storage Temperature Range | | -65 | +150 | °C |
| T _J | Maximum Junction Temperature | | | +150 | °C |
| T _L | Lead Temperature (Soldering, 10 seconds) | | | +260 | °C |
| ESD | Human Body Model (JEDEC: JESD22-A114) | I/O to GND | | 12 | kV |
| | | Power to GND | | 16 | |
| | | All Other Pins | | 8 | |
| | Charge Device Model (JEDEC: JESD22-C101) | | | | 2 |

Note:

- Input and output negative ratings may be exceeded if input and output diode current ratings are observed.

Recommended Operating Conditions

The Recommended Operating Conditions table defines the conditions for actual device operation. Recommended operating conditions are specified to ensure optimal performance to the datasheet specifications. Fairchild does not recommend exceeding them or designing to absolute maximum ratings.

| Symbol | Parameter | Min. | Max. | Units |
|-----------------------------------|--|------------------------|-----------------|-------|
| V _{CC} | Supply Voltage | 1.65 | 4.3 | V |
| V _{CNTRL} ⁽²⁾ | Control Input Voltage – Select Pin | 0 | V _{CC} | V |
| V _{SW} | Switch I/O Voltage | V _{CC} - 4.3V | 4.3 | V |
| V _{SW-SW} | Switch I/O Voltage to Switch I/O Voltage (Off-State) | | 4.6 | V |
| T _A | Operating Temperature | -40 | 85 | °C |

Note:

- Input and output negative ratings may be exceeded if input and output diode current ratings are observed.

DC Electrical Characteristics

All typical values are at 25°C unless otherwise specified.

| Symbol | Parameter | Conditions | V _{CC} (V) | T _A =+25°C | | | T _A =-40 to +85°C | | Unit |
|---|--|--|---|-----------------------|-------|-----------------|------------------------------|-------|------|
| | | | | Min. | Typ. | Max. | Min. | Max. | |
| | Analog Signal Range | | | V _{CC} -4.3V | | V _{CC} | | | V |
| V _{IK} | Clamp Diode Voltage | | 3.00 | | | | | -1.2 | V |
| V _{IH} | Input Voltage High | | 3.60 to 4.30 | | | | 1.4 | | V |
| | | | 2.70 to 3.60 | | | | 1.3 | | |
| | | | 2.30 to 2.70 | | | | 1.3 | | |
| | | | 1.65 to 1.95 | | | | 0.9 | | |
| V _{IL} | Input Voltage Low | | 3.60 to 4.30 | | | | | 0.7 | V |
| | | | 2.70 to 3.60 | | | | | 0.4 | |
| | | | 2.30 to 2.70 | | | | | 0.4 | |
| | | | 1.65 to 1.95 | | | | | 0.4 | |
| I _{IN} | Control Input Leakage (S) | V _{IN} =0 to V _{CC} | 4.30 | | | | -1 | 1 | μA |
| I _{NO(OFF)} , I _{NC(OFF)} | Off Leakage Current of Port B0 and B1 | A=0.5V, V _{CC} - 0.5V B0 or B1=V _{CC} - 0.5V, 0.5V, or Floating; Figure 4 | 1.95 to 4.30 | -100 | | 100 | -500 | 500 | nA |
| I _{A(ON)} | On Leakage Current of Port A | A=0.5V, V _{CC} - 0.5V B0 or B1=V _{CC} -0.5V, 0.5V, or Floating; Figure 5 | 4.30 | -100 | | 100 | -250 | 250 | nA |
| I _{OFF} | Power-Off Leakage Current (All I/O Ports) | V _{A,BN} =0.3V to 4.3V or Floating, | 0V or Floating | | | | -40 | 40 | μA |
| R _{ON} | Switch On Resistance ^(3,6) | | I _{ON} =100mA, B0 or B1=0, 0.7V, 3.6V, 4.3V; Figure 3 | 4.30 | | 0.4 | | 0.8 | Ω |
| | | | I _{ON} =100mA, B0 or B1=0, 0.7V, 2.0V, 2.7V; Figure 3 | 2.70 | | 0.8 | | 1.0 | |
| | | | I _{ON} =100mA, B0 or B1=0, 0.7V, 1.6V, 2.3V; Figure 3 | 2.30 | | | | 1.5 | |
| | | | I _{ON} =100mA, B0 or B1=0, 0.7V, 1.65V; Figure 3 | 1.65 | | 1.3 | | 2.0 | |
| ΔR _{ON} | On Resistance Matching Between Channels ⁽⁴⁾ | I _{ON} =100mA, B0 or B1=0.7V | 2.30 to 4.30 | | 0.050 | | | 0.130 | Ω |
| R _{FLAT(ON)} | On Resistance Flatness ⁽⁵⁾ | I _{OUT} =100mA, B0 or B1=0V to V _{CC} | 2.70 to 4.30 | | | | | 0.45 | Ω |
| I _{CC} | Quiescent Supply Current | V _{SW} =0 or V _{CC} , I _{OUT} =0 | 4.30 | -100 | | 100 | -500 | 500 | nA |
| I _{OCT} | Increase in I _{CC} per Input | Input at 2.6V | 4.30 | | 3.0 | | | 10.0 | μA |
| | | Input at 1.8V | | | 7.0 | | | | |

Notes:

3. On resistance is determined by the voltage drop between A and B pins at the indicated current through the switch.
4. Δ R_{ON}=R_{ON max} - R_{ON min} measured at identical V_{CC}, temperature, and voltage.
5. Flatness is defined as the difference between the maximum and minimum value of on resistance (R_{ON}) over the specified range of conditions.
6. Guaranteed by characterization, not production tested.

AC Electrical Characteristics

All typical value are for V_{CC}=1.8V, 2.5V, 3.3V, and 4.0V at 25°C unless otherwise specified.

| Symbol | Parameter | Conditions | V _{CC} (V) | T _A =+25°C | | | T _A =-40 to +85°C | | Unit | Figure |
|------------------|---------------------------|---|---------------------|-----------------------|------|------|------------------------------|------|------|----------------------|
| | | | | Min. | Typ. | Max. | Min. | Max. | | |
| t _{ON} | Turn-On Time | B0 or B1=1.0V, R _L =50Ω, C _L =35pF | 3.60 to 4.30 | 5 | | 65 | 3 | 70 | ns | Figure 6 Figure 7 |
| | | | 2.70 to 3.60 | 5 | | 65 | 3 | 70 | | |
| | | | 2.30 to 2.70 | 5 | | 70 | 3 | 80 | | |
| | | | 1.65 to 1.95 | 10 | | 100 | 10 | 150 | | |
| t _{OFF} | Turn-Off Time | B0 or B1=1.0V, R _L =50Ω, C _L =35pF | 3.60 to 4.30 | 1 | | 35 | 1 | 45 | ns | Figure 6 Figure 7 |
| | | | 2.70 to 3.60 | 1 | | 35 | 1 | 45 | | |
| | | | 2.30 to 2.70 | 2 | | 45 | 2 | 50 | | |
| | | | 1.65 to 1.95 | 2 | | 70 | 2 | 95 | | |
| t _{BBM} | Break-Before-Make Time | B0 or B1=1.0V, R _L =50Ω, C _L =35pF | 3.60 to 4.30 | | | | 2 | | ns | Figure 8 |
| | | | 2.70 to 3.60 | | | | 2 | | | |
| | | | 2.30 to 2.70 | | | | 2 | | | |
| | | | 1.65 to 1.95 | | | | 2 | | | |
| Q | Charge Injection | C _L =1.0nF, V _S =0V, R _S =0Ω | 3.60 to 4.30 | | 25 | | | | pC | Figure 12 |
| | | | 2.70 to 3.60 | | 15 | | | | | |
| | | | 2.30 to 2.70 | | 12 | | | | | |
| | | | 1.65 to 1.95 | | 5 | | | | | |
| OIRR | Off Isolation | f=20kHz, R _L =50Ω, C _L =0pF | 1.65 to 4.30 | | -60 | | | | dB | Figure 10 |
| Xtalk | Crosstalk | f=20kHz, R _L =50Ω, C _L =0pF | 1.65 to 4.30 | | -60 | | | | dB | Figure 11 |
| BW | -3db Bandwidth | R _L =50Ω, C _L =0pF | 1.65 to 4.30 | | >50 | | | | MHz | Figure 9 |
| THD | Total Harmonic Distortion | f=20Hz to 20kHz, R _L =32Ω, V _{IN} =2V _{PP} | 1.65 to 4.30 | | 0.1 | | | | % | Figure 15 |
| SNR | Signal to Noise Ratio | f=1kHz, R _L =32Ω, V _{IN} =0dBm, V _{BIAS} =0V | 4.30 | | -70 | | | | dB | |

Capacitance

| Symbol | Parameter | Conditions | V _{CC} (V) | T _A =+25°C | | | Unit | Figure |
|------------------|-------------------------------|------------|---------------------|-----------------------|------|------|------|-----------|
| | | | | Min. | Typ. | Max. | | |
| C _{IN} | Control Pin Input Capacitance | f=1MHz | 0 | | 3 | | pF | Figure 13 |
| C _{OFF} | B Port Off Capacitance | f=1MHz | 3.30 | | | 30 | pF | Figure 13 |
| C _{ON} | A Port On Capacitance | f=1MHz | 3.30 | | | 150 | pF | Figure 14 |

Test Diagrams

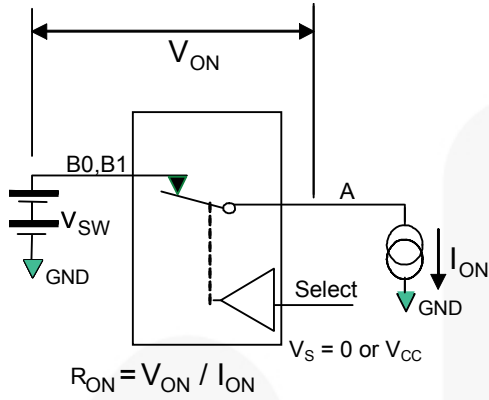


Figure 3. On Resistance

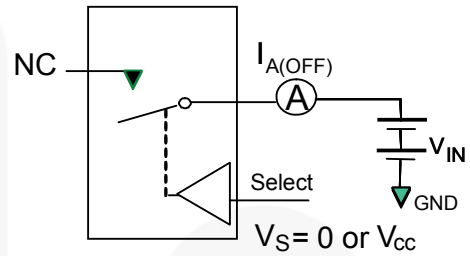


Figure 4. Off Leakage (Ports Tested Separately)

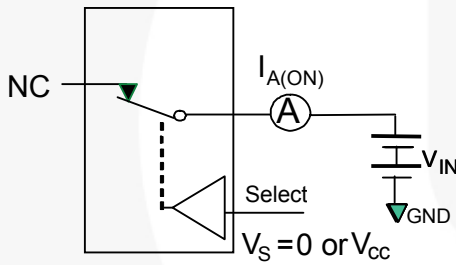


Figure 5. On Leakage

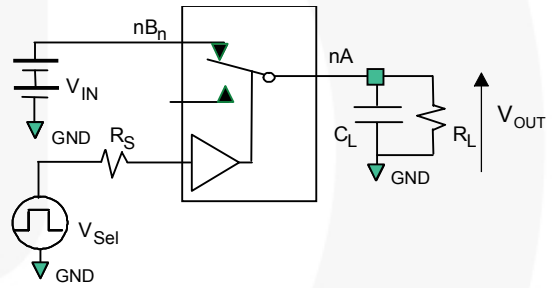


Figure 6. Test Circuit Load

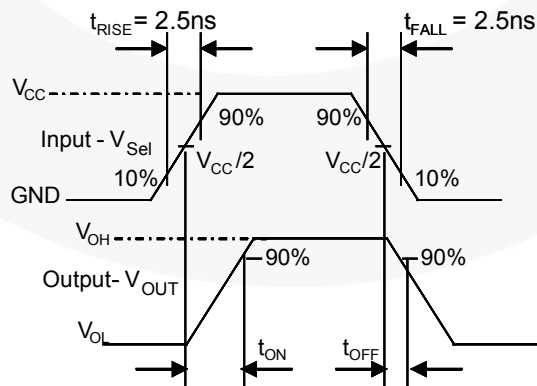


Figure 7. Turn-On / Turn-Off Waveforms

Test Diagrams (Continued)

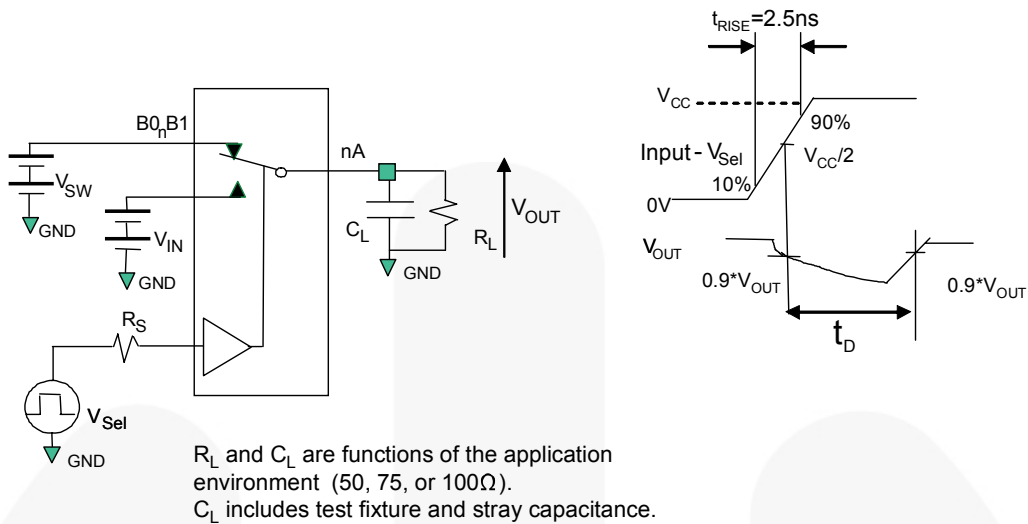


Figure 8. Break-Before-Make Interval Timing

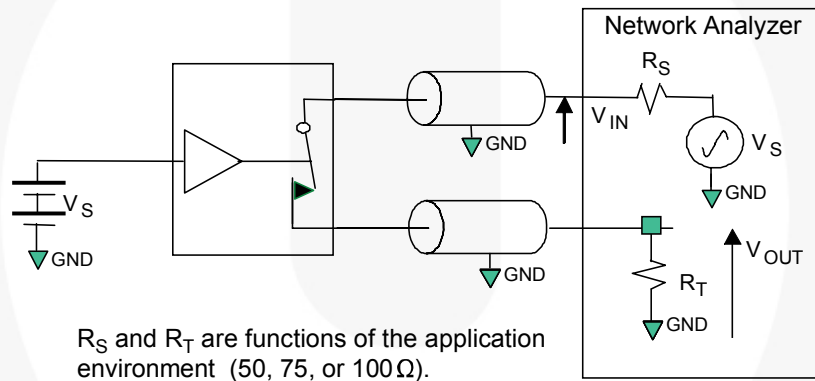


Figure 9. Bandwidth

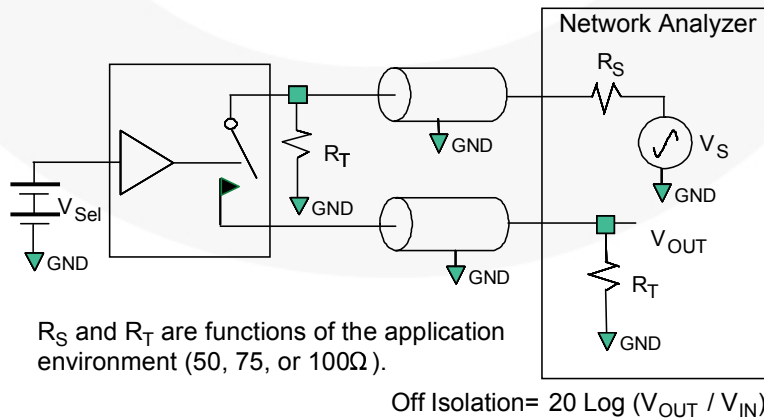


Figure 10. Channel Off Isolation

Test Diagrams (Continued)

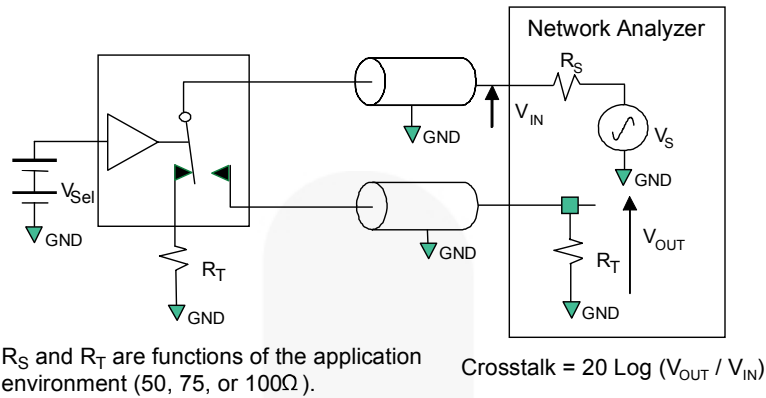


Figure 11. Adjacent Channel Crosstalk

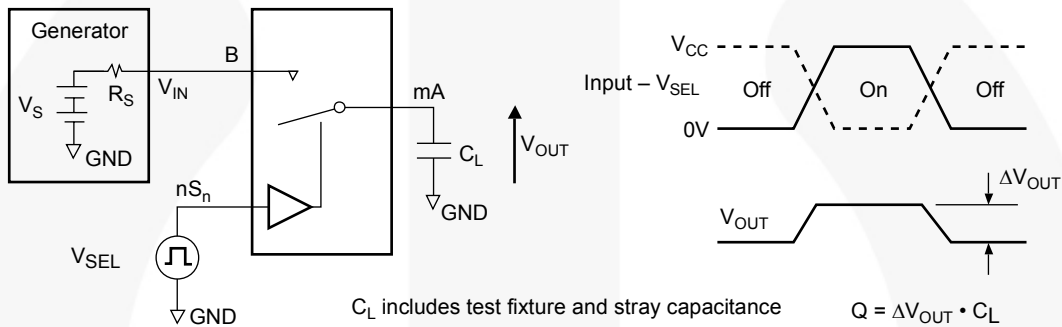


Figure 12. Charge Injection Test

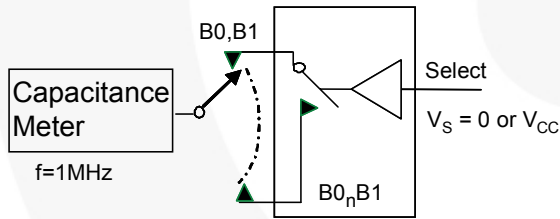


Figure 13. Channel Off Capacitance

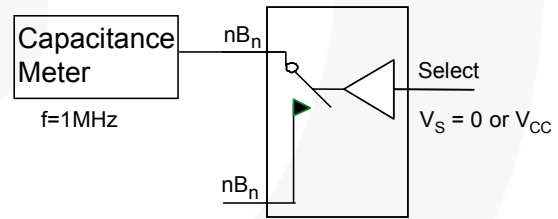


Figure 14. Channel On Capacitance

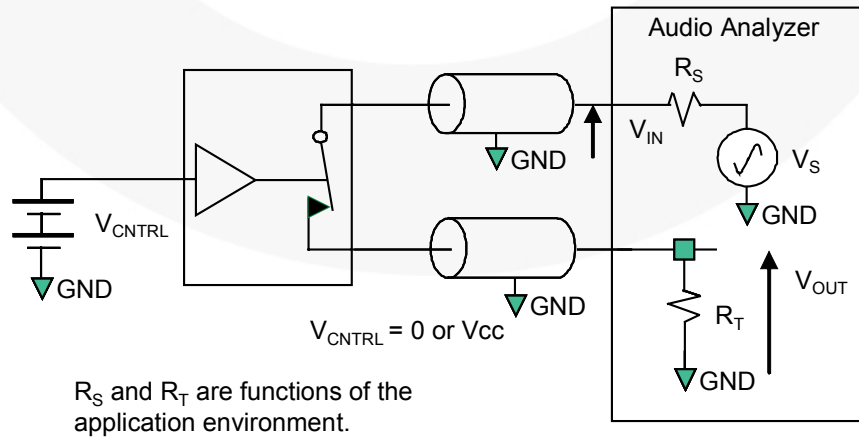


Figure 15. Total Harmonic Distortion

Physical Dimensions

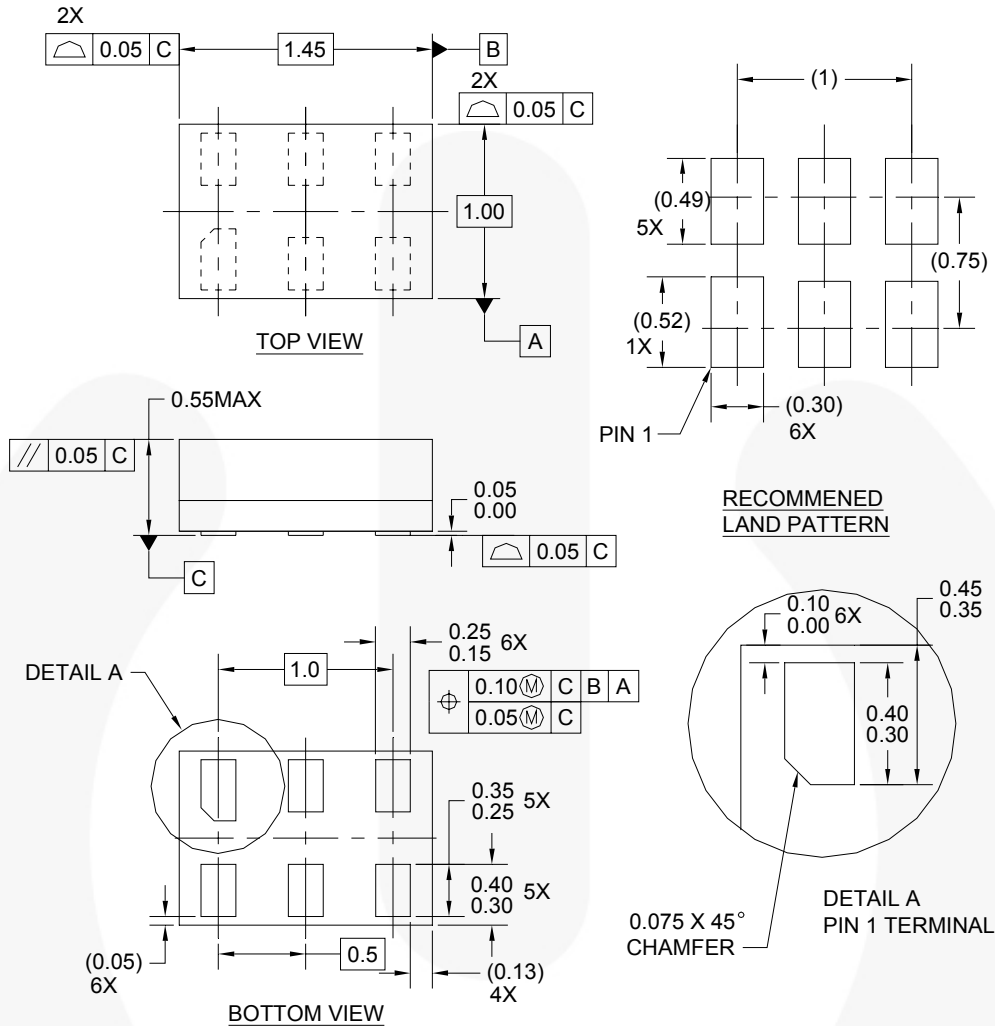


Figure 16. 6-Lead MicroPak™, 1.0mm Wide

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