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NC7SB3157, FSA3157

Low-Voltage SPDT Analog Switch or 2:1 Multiplexer / De-multiplexer Bus Switch

Features

- Useful in Both Analog and Digital Applications
- Space-Saving, SC70 6-Lead Surface Mount Package
- Ultra-Small, MicroPak™ Leadless Package
- Low On Resistance: $<10\Omega$ on Typical at 3.3V V_{CC}
- Broad V_{CC} Operating Range: 1.65V to 5.5V
- Rail-to-Rail Signal Handling
- Power-Down, High-Impedance Control Input
- Over-Voltage Tolerance of Control Input to 7.0V
- Break-Before-Make Enable Circuitry
- 250MHz, 3dB Bandwidth

Description

The NC7SB3157 / FSA3157 is a high-performance, single-pole / double-throw (SPDT) analog switch or 2:1 multiplexer / de-multiplexer bus switch.

The device is fabricated with advanced sub-micron CMOS technology to achieve high-speed enable and disable times and low on resistance. The break-before-make select circuitry prevents disruption of signals on the B Port due to both switches temporarily being enabled during select pin switching. The device is specified to operate over the 1.65 to 5.5V V_{CC} operating range. The control input tolerates voltages up to 5.5V, independent of the V_{CC} operating range.

Ordering Information

Part Number	Top Mark	 Eco Status	Package Description	Packing Method
NC7SB3157P6X	B7A	RoHS	6-Lead, SC70, EIAJ SC88, 1.25mm Wide Package	3000 Units on Tape and Reel
NC7SB3157L6X	BB	RoHS	6-Lead, MicroPak 1.0mm Wide Package	5000 Units on Tape and Reel
FSA3157P6X	B7A	RoHS	6-Lead, SC70, EIAJ SC88, 1.25mm Wide Package	3000 Units on Tape and Reel
FSA3157L6X	BB	RoHS	6-Lead, MicroPak 1.0mm Wide Package	5000 Units on Tape and Reel



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

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Logic Symbol

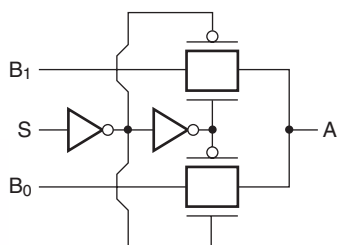


Figure 1. Logic Symbol

Analog Symbol

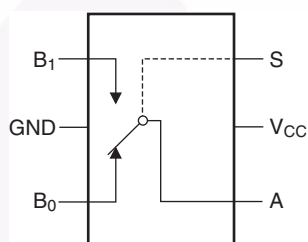


Figure 3. Analog Symbol

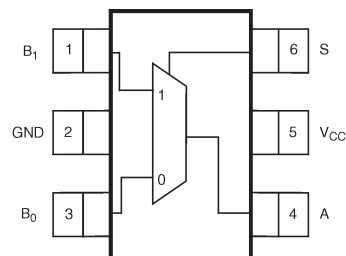
Function Table

Input (S)	Function
Logic Level Low	B ₀ Connected to A
Logic Level High	B ₁ Connected to A

Pin Descriptions

Pin Names	Description
A, B ₀ , B ₁	Data Ports
S	Control Input

Connection Diagrams



2. Pin Assignments SC70

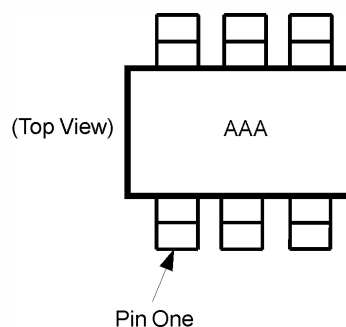


Figure 4. Pin One Orientation

Note:

Orientation of top mark determines pin one location. Read the top product code mark left to right and pin one is the lower left pin (see Figure 4).

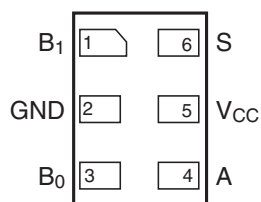


Figure 5. Pad Assignments for MicroPak™

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.	Unit
V_{CC}	Supply Voltage	-0.5	+7.0	V
V_S	DC Switch Voltage ⁽¹⁾	-0.5	$V_{CC} + 0.5$	V
V_{IN}	DC Input Voltage ⁽¹⁾	-0.5	+7.0	V
I_{IK}	DC Input Diode Current at $V_{IN} < 0V$		-50	mA
I_{OUT}	DC Output Current		128	mA
I_{CC}/I_{GND}	DC V_{CC} or Ground Current		± 100	mA
T_{STG}	Storage Temperature Range	-65	+150	°C
T_J	Junction Temperature Under Bias		+150	°C
T_L	Junction Lead Temperature (Soldering, 10 seconds)		+260	°C
MSL	Moisture Sensitivity Level (JEDEC J-STD-020A)		1	Level
P_D	Power Dissipation at +85°C		180	mW
ESD	Human Body Model, JESD22-A114		4000	V

Note:

1. The input and output negative voltage ratings may be exceeded if the 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.	Unit
V_{CC}	Supply Voltage Operating		1.65	5.50	V
V_{IN}	Control Input Voltage ⁽²⁾		0	V_{CC}	V
V_{IN}	Switch Input Voltage ⁽²⁾		0	V_{CC}	V
V_{OUT}	Output Voltage ⁽²⁾		0	V_{CC}	V
T_A	Operating Temperature		-40	+85	°C
t_r, t_f	Input Rise and Fall Time	Control Input $V_{CC} = 2.3V-3.6V$	0	10	ns/V
		Control Input $V_{CC} = 4.5V-5.5V$	0	5	ns/V
θ_{JA}	Thermal Resistance, SC70			270	°C/W

Note:

2. Control input must be held HIGH or LOW; it must not float.

DC Electrical Characteristics

Symbol	Parameter	Conditions	V _{CC} (V)	T _A = +25°C			T _A = -40°C to +85°C		Units
				Min.	Typ.	Max.	Min.	Max.	
V _{IH}	High Level Input Voltage		1.65 – 1.95	0.75 V _{CC}			0.75 V _{CC}		V
			2.3 – 5.5	0.7 V _{CC}			0.7 V _{CC}		
V _{IL}	Low Level Input Voltage		1.65 – 1.95			0.25 V _{CC}		0.25 V _{CC}	V
			2.3 – 5.5			0.3 V _{CC}		0.3 V _{CC}	
I _{IN}	Input Leakage Current	0 ≤ V _{IN} ≤ 5.5V	0 – 5.5		±0.05	±0.1		±1	μA
I _{OFF}	Off State Leakage Current	0 ≤ A, B ≤ V _{CC}	1.65 – 5.5		±0.05	±0.1		±1	μA
R _{ON}	Switch On Resistance ⁽³⁾	V _{IN} = 0V, I _O = 30mA	4.5		3.0	7.0		7.0	Ω
		V _{IN} = 2.4V, I _O = -30mA			5.0	12.0		12.0	
		V _{IN} = 4.5V, I _O = -30mA			7.0	15.0		15.0	
		V _{IN} = 0V, I _O = 24mA	3.0		4.0	9.0		9.0	
		V _{IN} = 3V, I _O = -24mA			10.0	20.0		20.0	
		V _{IN} = 0V, I _O = 8mA	2.3		5.0	12.0		12.0	
		V _{IN} = 2.3V, I _O = -8mA			13.0	30.0		30.0	
		V _{IN} = 0V, I _O = 4mA	1.65		6.5	20.0		20.0	
		V _{IN} = 1.65V, I _O = -4mA			17.0	50.0		50.0	
I _{CC}	Quiescent Supply Current; All Channels On or Off	V _{IN} = V _{CC} or GND I _{OUT} = 0	5.5			1		10	μA
	Analog Signal Range		V _{CC}	0		V _{CC}	0	V _{CC}	V
R _{RANGE}	On Resistance Over Signal Range ^(3, 7)	I _A = -30mA, 0 ≤ V _{Bn} ≤ V _{CC}	4.5					25.0	Ω
		I _A = -24mA, 0 ≤ V _{Bn} ≤ V _{CC}	3.0					50.0	
		I _A = -8mA, 0 ≤ V _{Bn} ≤ V _{CC}	2.3					100	
		I _A = -4mA, 0 ≤ V _{Bn} ≤ V _{CC}	1.65					300	
ΔR _{ON}	On Resistance Match Between-Channels ^(3, 4, 5)	I _A = -30mA, V _{Bn} = 3.15	4.5		0.15				Ω
		I _A = -24mA, V _{Bn} = 2.1	3.0		0.2				
		I _A = -8mA, V _{Bn} = 1.6	2.3		0.5				
		I _A = -4mA, V _{Bn} = 1.15	1.65		0.50				
R _{flat}	On Resistance Flatness ^(3, 4, 6)	I _A = -30mA, 0 ≤ V _{Bn} ≤ V _{CC}	5.0		6.0				Ω
		I _A = -24mA, 0 ≤ V _{Bn} ≤ V _{CC}	3.3		12.0				
		I _A = -8mA, 0 ≤ V _{Bn} ≤ V _{CC}	2.5		28.0				
		I _A = -4mA, 0 ≤ V _{Bn} ≤ V _{CC}	1.8		125				

Notes:

- Measured by the voltage drop between A and B pins at the indicated current through the switch. On resistance is determined by the lower of the voltages on the two (A or B Ports).
- Parameter is characterized, but not tested in production.
- ΔR_{ON} = R_{ON} max – R_{ON} minimum measured at identical V_{CC}, temperature, and voltage levels.
- Flatness is defined as the difference between the maximum and minimum value of on resistance over the specified range of conditions.
- Guaranteed by design.

AC Electrical Characteristics

Symbol	Parameter	Conditions	V _{CC} (V)	T _A = +25°C			T _A = –40°C to +85°C		Units	Figure Number
				Min.	Typ.	Max.	Min.	Max.		
t _{PHL} , t _{PLH}	Propagation Delay Bus-to-Bus ⁽⁸⁾	V _I = OPEN	1.65 – 1.95			3.5		3.5	ns	Figure 12 Figure 13
			2.3 – 2.7			1.2		1.2		
			3.0 – 3.6			0.8		0.8		
			4.5 – 5.5			0.3		0.3		
t _{PZL} , t _{PZH}	Output Enable Time Turn-On Time (A to B _n)	V _I = 2 x V _{CC} for t _{PZL} V _I = 0V for t _{PZH}	1.65 – 1.95	7.0		23.0	7.0	24.0	ns	Figure 12 Figure 13
			2.3 – 2.7	3.5		13.0	3.5	14.0		
			3.0 – 3.6	2.5		6.9	2.5	7.6		
			4.5 – 5.5	1.7		5.2	1.7	5.7		
t _{PLZ} , t _{PHZ}	Output Disable Time Turn-Off Time (A Port to B Port)	V _I = 2 x V _{CC} for t _{PLZ} V _I = 0V for t _{PHZ}	1.65 – 1.95	3.0		12.5	3.0	13.0	ns	Figure 12 Figure 13
			2.3 – 2.7	2.0		7.0	2.0	7.5		
			3.0 – 3.6	1.5		5.0	1.5	5.3		
			4.5 – 5.5	0.8		3.5	0.8	3.8		
t _{B-M}	Break-Before-Make Time ⁽⁹⁾		1.65 – 1.95	0.5			0.5		ns	Figure 14
			2.3 – 2.7	0.5			0.5			
			3.0 – 3.6	0.5			0.5			
			4.5 – 5.5	0.5			0.5			
Q	Charge Injection ⁽⁹⁾	C _L = 0.1nF, V _{GEN} = 0V,	5.0		7.0				pC	Figure 15
		R _{GEN} = 0Ω	3.3		3.0					
OIRR	Off Isolation ⁽¹⁰⁾	R _L = 50Ω, f = 10MHz	1.65 – 5.5		–57.0				dB	Figure 16
Xtalk	Crosstalk	R _L = 50Ω, f = 10MHz	1.65 – 5.5		–54.0				dB	Figure 17
BW	–3dB Bandwidth	R _L = 50Ω	1.65 – 5.5		250				MHz	Figure 20
THD	Total Harmonic Distortion ⁽⁹⁾	R _L = 600Ω, 0.5 V _{PP} , f = 600 Hz to 20 KHz	5.0		.011				%	

Notes:

8. This parameter is guaranteed by design but not tested. The bus switch contributes no propagation delay other than the RC delay of the on resistance of the switch and the 50pF load capacitance, when driven by an ideal voltage source (zero output impedance).
9. Guaranteed by design.
10. Off Isolation = 20 log₁₀ [V_A / V_{Bn}].

Capacitance

T_A = +25°C, f = 1MHz. Capacitance is characterized, but not tested in production.

Symbol	Parameter	Conditions	Typ.	Max.	Units	Figure Number
C _{IN}	Control Pin Input Capacitance	V _{CC} = 0V	2.3		pF	
C _{IO-B}	B Port Off Capacitance	V _{CC} = 5.0V	6.5		pF	Figure 18
C _{IOA-ON}	A Port Capacitance When Switch Is Enabled	V _{CC} = 5.0V	18.5		pF	Figure 19

Typical Characteristics

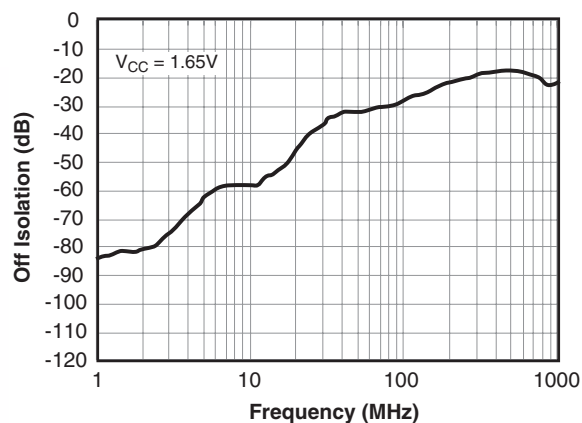


Figure 6. Off Isolation, $V_{CC} = 1.65V$

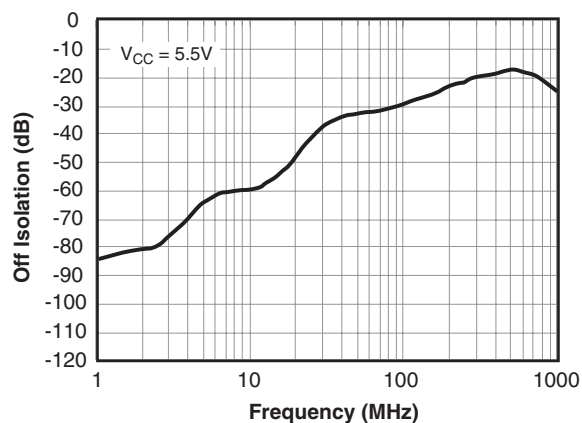


Figure 7. Off Isolation, $V_{CC} = 5.5V$

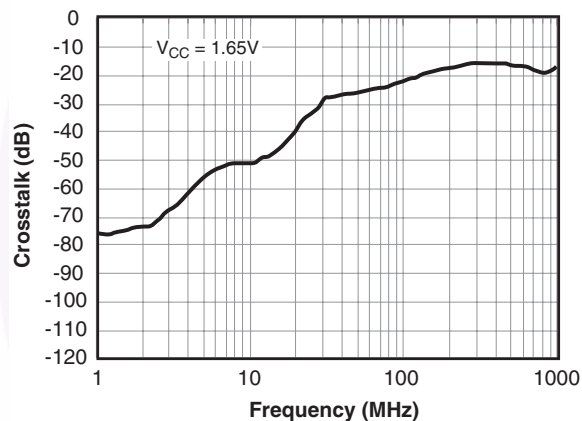


Figure 8. Crosstalk, $V_{CC} = 1.65V$

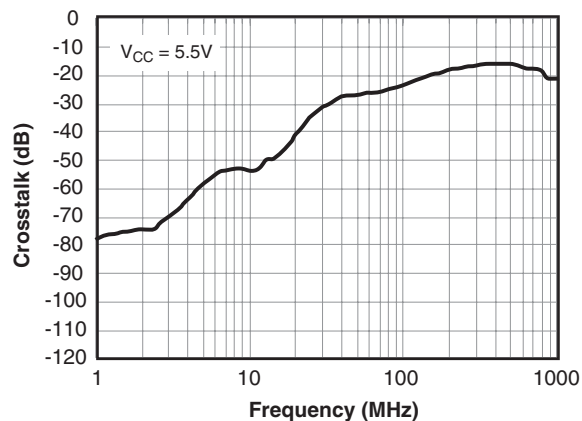


Figure 9. Crosstalk, $V_{CC} = 5.5V$

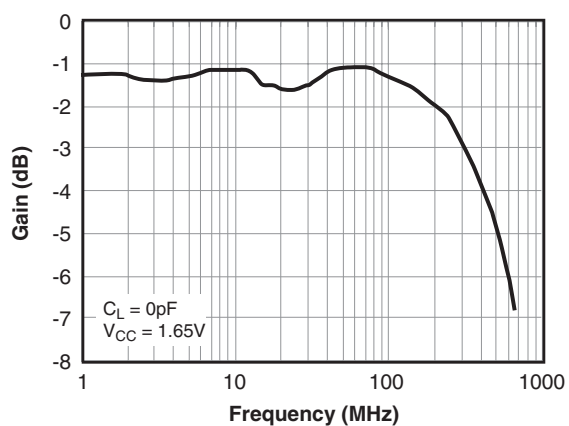


Figure 10. Bandwidth, $V_{CC} = 1.65V$

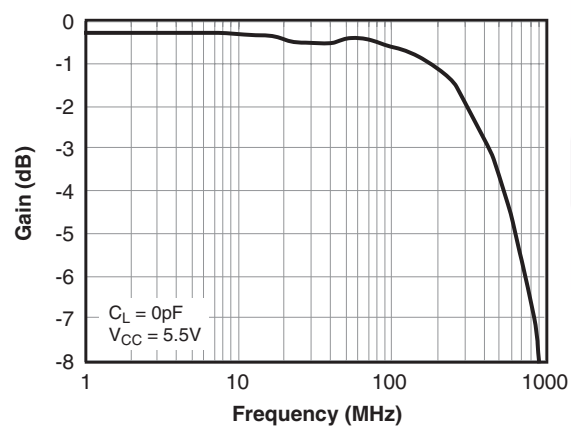
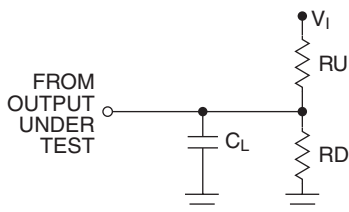


Figure 11. Bandwidth, $V_{CC} = 5.5V$

AC Loading and Waveforms



Notes:

Input driven by 50Ω source terminated in 50Ω

C_L includes load and stray capacitance

Input PRR = 1.0 MHz; $t_W = 500$ ns

Figure 12. AC Test Circuit

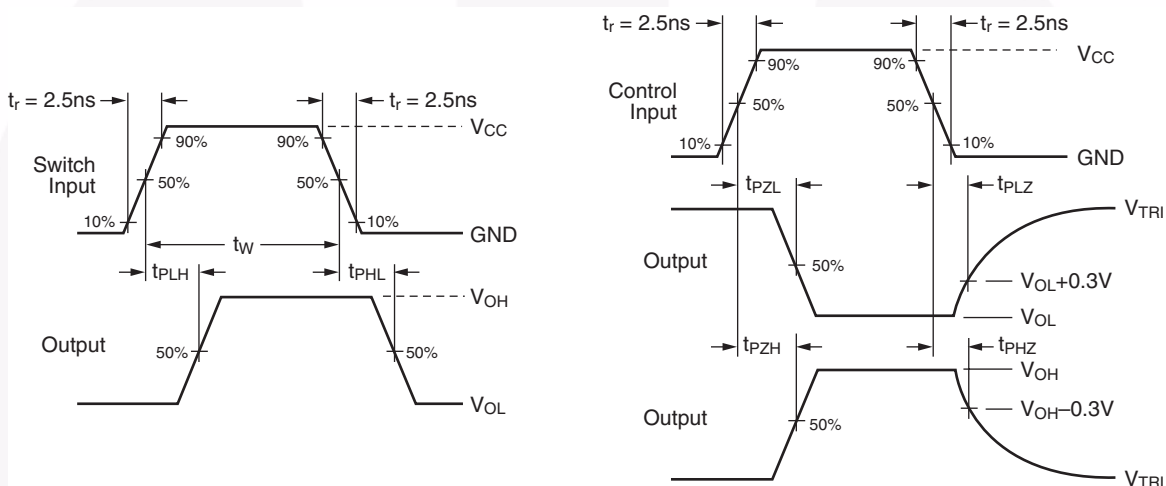


Figure 13. AC Waveforms

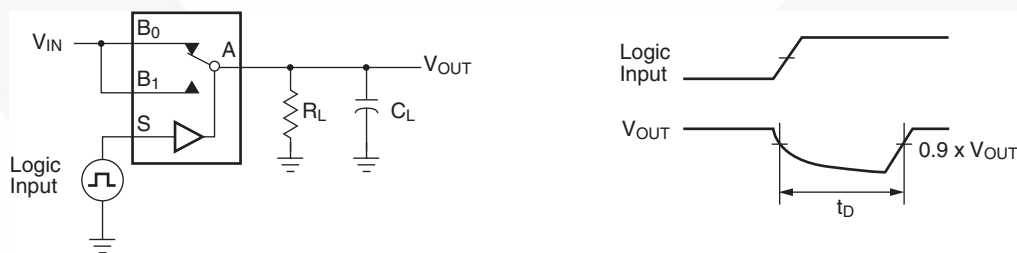


Figure 14. Break-Before-Make Interval Timing

AC Loading and Waveforms (continued)

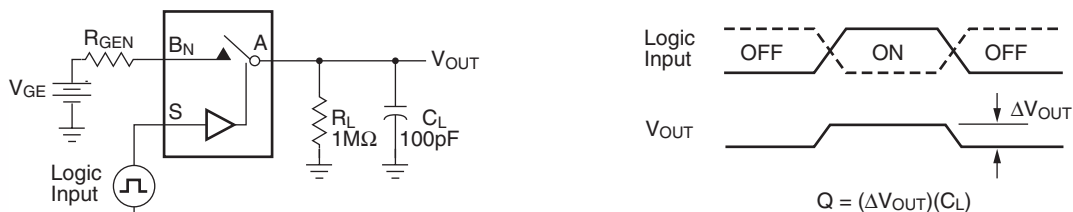


Figure 15. Charge Injection Test

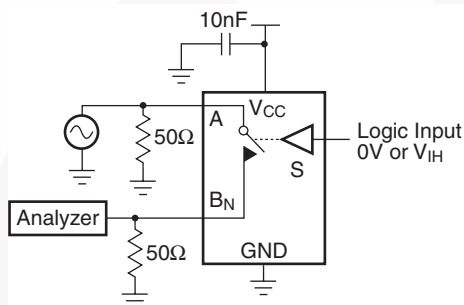


Figure 16. Off Isolation

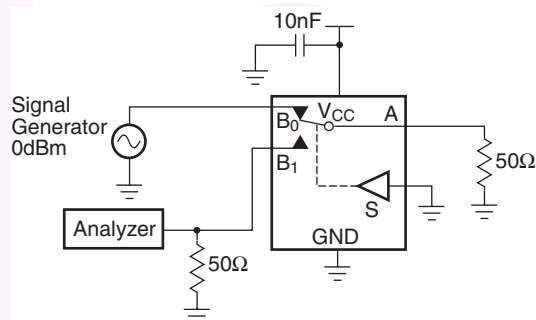


Figure 17. Crosstalk

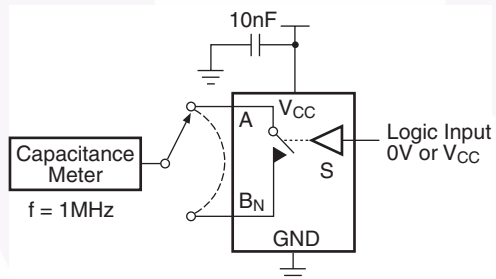


Figure 18. Channel Off Capacitance

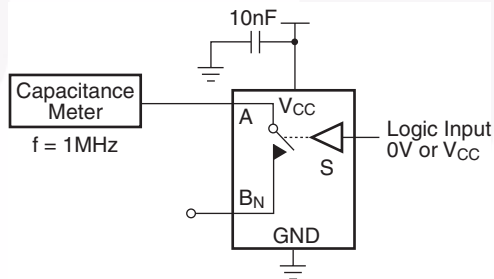


Figure 19. Channel On Capacitance

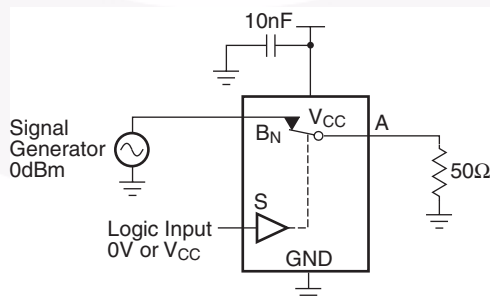
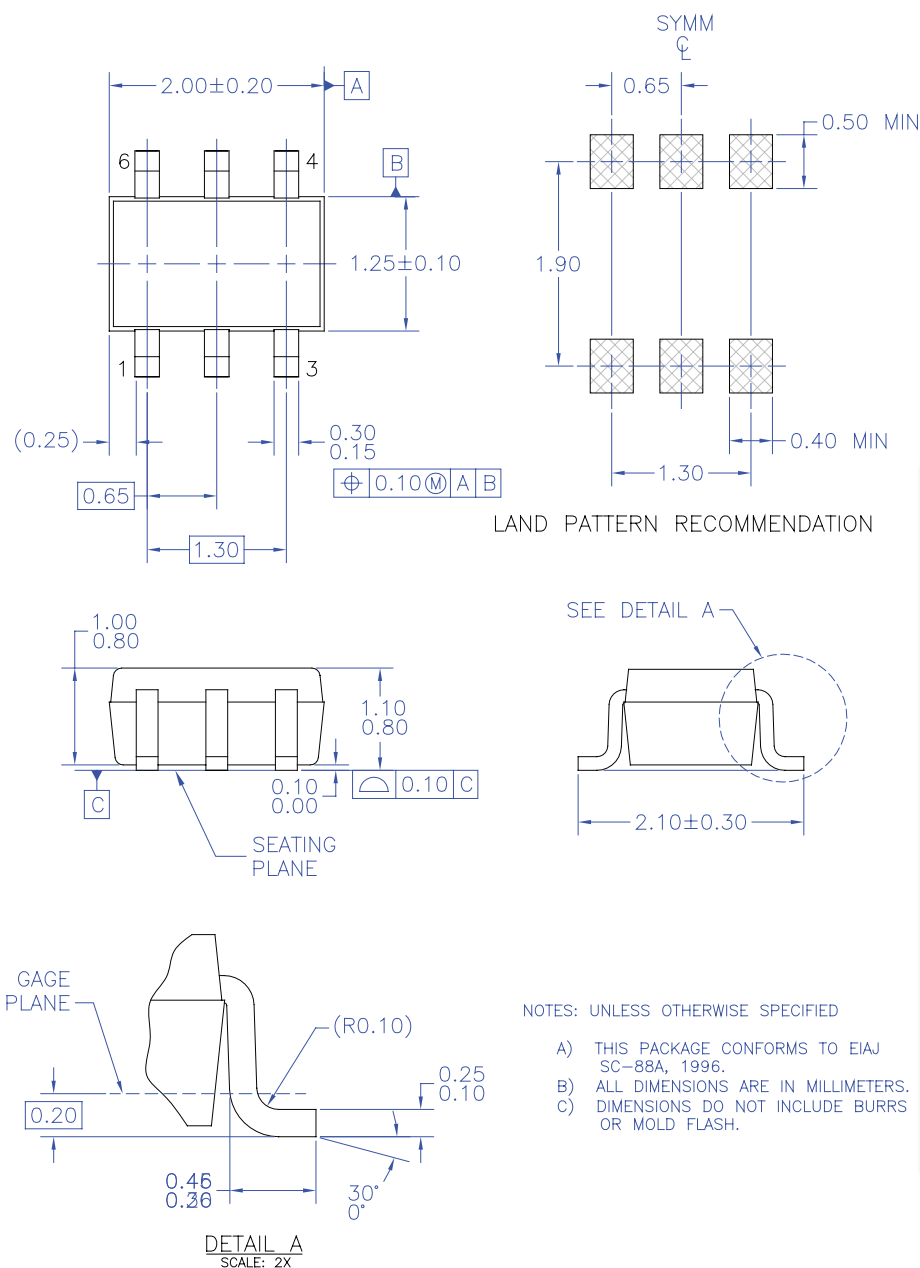


Figure 20. Bandwidth

Physical Dimensions



MAA06AREV5

Figure 21. 6-Lead, SC70, EIAJ SC88, 1.25mm Wide Package

Note: [click here for tape and reel specifications, available at:](http://www.fairchildsemi.com/products/analog/pdf/sc70-6_tr.pdf)

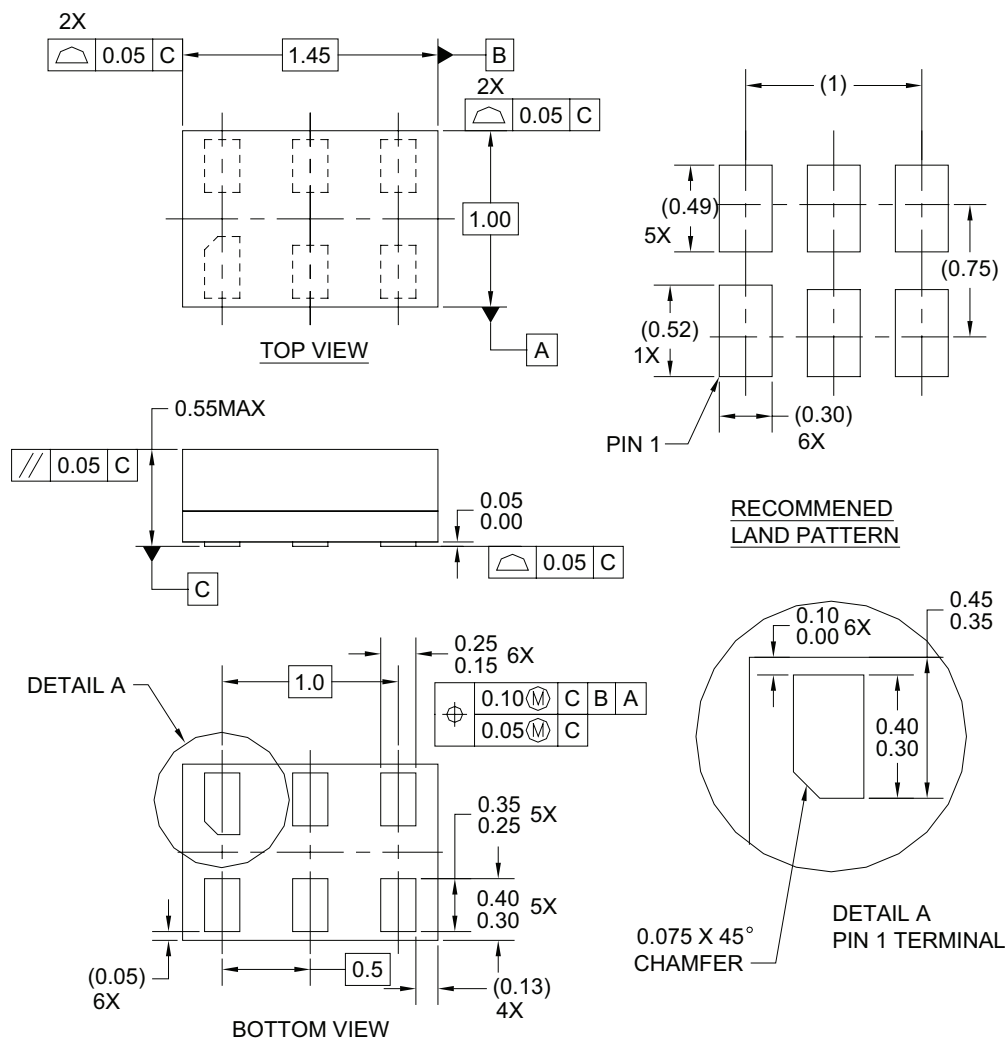
http://www.fairchildsemi.com/products/analog/pdf/sc70-6_tr.pdf

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Physical Dimensions



Notes:

1. CONFORMS TO JEDEC STANDARD M0-252 VARIATION UAAD
2. DIMENSIONS ARE IN MILLIMETERS
3. DRAWING CONFORMS TO ASME Y14.5M-1994

MAC06AREVC

6-Lead, MicroPak™ 1.0mm Wide Package

Note: [click here for tape and reel specifications, available at:](http://www.fairchildsemi.com/products/logic/pdf/micropak_tr.pdf)

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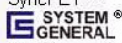
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