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FSA2267 / FSA2267A 0.35Ω Low-Voltage Dual-SPDT Analog Switch

Features

- Typical 0.35 Ω On Resistance (R_{ON}) for +2.7V Supply
- + FSA2267A Features <10 μ A I $_{CCT}$ Current when S Input is Lower than V_{CC}
- R_{ON} Fatness for +2.7V Supply: 0.25Ω Maximum
- 1.6mm x 2.1mm 10-Lead MicroPak[™] Package
- Broad V_{CC} Operating Range
- + Low THD (0.02% Typical for 32 Ω Load)
- High Current Handling Capability (350mA Continuous Current <3.3V Supply)

Applications

- Cell phone
- PDA
- · Portable Media Player

Description

The FSA2267 and FSA2267A are Dual Single Pole Double Throw (SPDT) analog switches. The FSA2267 operates from a single 1.65V to 3.6V supply, while the FSA2267A operates from a single 2.3V to 4.3V supply. Each features an ultra-low On Resistance of 0.35Ω at a +2.7V supply and 25°C. Both devices are fabricated with sub-micron CMOS technology to achieve fast switching speeds and designed for break-before-make operation.

FSA2267A features very low quiescent current, even when the control voltage is lower than the V_{CC} supply. This feature services the mobile handset applications very well, allowing for the direct interface with baseband processor general-purpose I/Os.

Ordering Information

Ordering informa	tion		
Order Number	Top Mark	Package Description	Packing Method
FSA2267L10X	FC	10-Lead MicroPak, 1.6 x 2.1mm, JEDEC MO-255	5000 Units on Tape and Reel
FSA2267AL10X	FD	10-Lead MicroPak, 1.6 x 2.1mm, JEDEC MO-255	5000 Units on Tape and Reel
FSA2267AMUX	FSA 2267A	10-Lead Molded Small Outline Package (MSOP), JEDEC MO-187, 3.0mm Wide	4000 Units on Tape and Reel

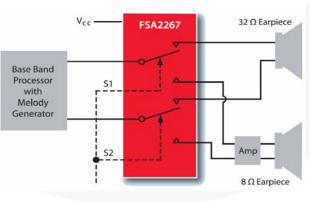
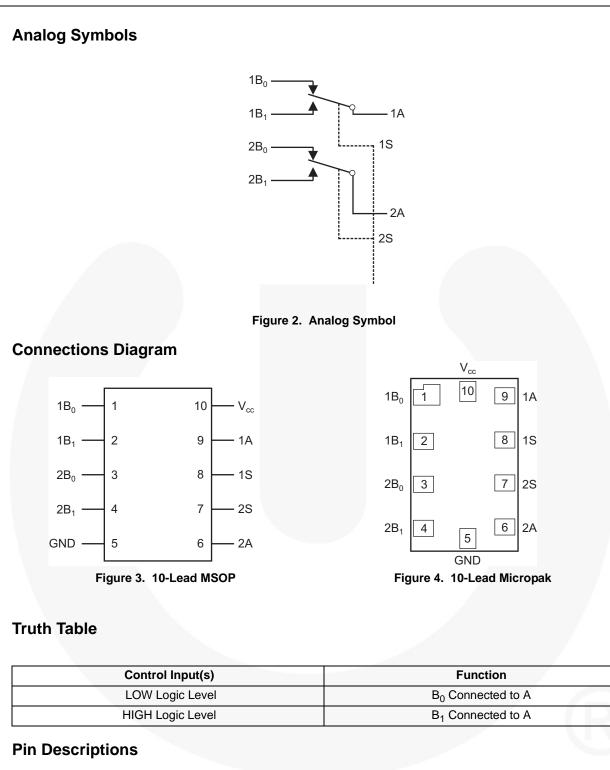


Figure 1. Application Diagram

March 2012



Pin	Name	Function
1, 2, 3, 4, 6, 9	1B ₀ , 1B ₁ , 2B ₀ , 2B ₁ , 2A, 1A	Data Ports
8, 7	1S, 2S	Control Input
10	VCC	Supply Voltage
5	GND	Ground

FSA2267/FSA2267A 0.35Ω Low-Voltage Dual-SPDT Analog Switch

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	+5.5	V
V _S	Switch Voltage ⁽¹⁾	-0.5	V _{CC} + 0.5	V
V _{IN}	Control Input Voltage ⁽¹⁾	-0.5	5.5	V
I _{IK}	Input Diode Current ⁽²⁾	-50		mA
I _{SW}	Switch Current		350	mA
I _{SWPEAK}	Peak Switch Current (Pulsed at 1ms Duration, <10% Duty Cycle)		500	mA
T _{STG}	Storage Temperature Range	-65	+150	°C
ТJ	Maximum Junction Temperature		+150	°C
ΤL	Lead Temperature (Soldering, 10 Seconds)		+260	°C
	Human Body Model: FSA2267		7500	V
ESD	Human Body Model, JESD22-A114:FSA2267A		7000	V
230	Charged Device Model, JESD22-C101: FSA2267/FSA2267A		1000	V

Notes:

- 1. The input and output negative voltage ratings may be exceeded if the input and output diode current ratings are observed.
- 2. Minimums define the acceptable range of current. Negative current should not exceed minimum negative values.

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
	Supply Voltage			V
V _{CC}	FSA2267	1.65	3.6	V
	FSA2267A	2.3	4.3	
V _{IN}	Control Input Voltage ⁽³⁾	0	V _{CC}	V
V _{SW}	Switch Input Voltage	0	V _{CC}	V
T _A	Operating Temperature	-40	+85	°C

Note:

3. Unused inputs must be held HIGH or LOW. They may not float.

ESD Protection

ESD Performance of the FSA2267/FSA2267A

FSA2267

- ? HBM all pins 7.0kV
- ? CDM all pins 1.0kV

FSA2267A

- ? HBM all pins 7.5kV
- ? CDM all pins 1.0kV

Human Body Model

Figure 5 shows the schematic representation of the Human Body Model ESD event. Figure 6 is the ideal waveform representation of the Human Body Model. The device is tested to JEDEC: JESD22-A114 Human Body Model.

Charged Device Model

In manufacturing test and handling environments, a more useful model is the Charged Device Model and the FSA2267/FSA2267A has a very good ESD immunity to this model. The device is tested to JEDEC: JESD22-C101 Charged Device Model.

IEC 61000-4-2

The IEC 61000-4-2 standard covers ESD testing and performance of finished equipment and evaluates the equipment in its entirety for ESD immunity. Fairchild Semiconductor has evaluated this device using the IEC 6100-4-2 representative system model depicted in Figure 7.

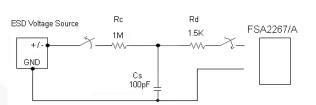
ESD values measured via the IEC 61000-4-2 evaluation method are influenced by the specific board layout, board size, and many other factors of the manufacturer's product application. Measured system ESD values cannot be guaranteed by Fairchild Semiconductor to exactly correlate to a manufacturer's in-house testing due to these application environment variables. Fairchild Semiconductor has been able to determine that, for ultra-portable applications, an enhanced ESD immunity, relative to the IEC 61000-4-2 specification, can be achieved with the inclusion of a 100 Ω -series resistor in the V_{CC} supply path to the analog switch (see Figure 8). Typical improvements of between 3-6kV of ESD immunity (I/O to GND) have been measured with the inclusion of the resistor with the IEC 61000-4-2 representative model. For more information on ESD testing methodologies, please refer to:

AN-6019 Fairchild Analog Switch Products ESD Test Methodology Overview

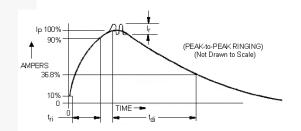
http://www.fairchildsemi.com/an/AN/AN-6019.pdf.

Additional ESD Test Conditions

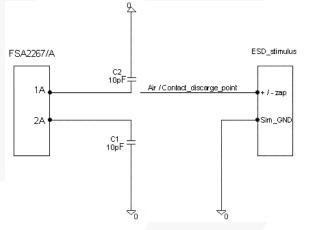
For information regarding test methodologies and performance levels, please contact Fairchild Semiconductor.

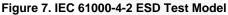


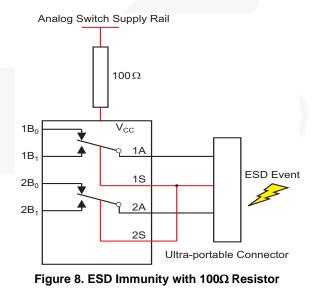












FSA2267 DC Electrical Characteristics

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

Symbol	Parameter	Parameter Conditions		T _A = +25°C			T _A = −40 to +85°C		Units	
-			(V)	Min.	Тур.	Max.	Min.	Max.		
			2.7 to 3.6				2.0			
VIH	Input Voltage High		2.3 to 2.7				1.7		V	
тн	input voltage riigh		1.65 to 1.95				0.65 V _{CC}		v	
			2.7 to 3.6					0.8		
V_{IL}	Input Voltage Low		2.3 to 2.7					0.7	V	
۲L	input voltage Low		1.65 to 1.95					0.35 V _{CC}	v	
I _{IN}	Control Input Leakage	$V_{IN} = 0V$ to V_{CC}	1.65 to 3.6				-0.5	0.5	μA	
		$nA = 0.3V, 3.3V, nB_0 \text{ or } nB_1$ = 0.3V, 3.3V or floating	3.6	-5.0		5.0	-50	50		
I _{NO(OFF)} , I _{NC(OFF)}	Off-Leakage Current of Port nB_0 and nB_1	$nA = 0.3V$, 2.4V, nB_0 or nB_1 = 0.3V, 2.4V or floating	2.7	-5.0		5.0	-50	50	nA	
		nA = 0.3V, 1.65V, nB ₀ or nB ₁ = 0.3V, 1.65V or floating	1.95	-5.0		5.0	-50	50		
	On Leakage Current of Port 1A and 2A	$nA = 0.3V, 3.3V, nB_0 \text{ or } nB_1 = 0.3V, 3.3V \text{ or floating}$	3.6	-5.0		5.0	-50	50		
I _{A(ON)}		$nA = 0.3V$, 2.4V, nB_0 or nB_1 = 0.3V, 2.4V or floating	2.7	-5.0		5.0	-50	50	nA	
		nA = 0.3V, 1.65V, nB ₀ or nB ₁ = 0.3V, 1.65V or floating	1.95	-5.0		5.0	-50	50		
		I _{OUT} = 100mA, nB ₀ or nB ₁ = 0V, 0.7V, 2.0V, 2.7V	2.7		0.35			0.60		
R _{ON}	Switch On Resistance ⁽⁴⁾ See Figure 9	I _{OUT} = 100mA, nB ₀ or nB ₁ = 0V, 0.7V, 1.6V, 2.3V	2.3		0.45			0.75	Ω	
		I _{OUT} = 100mA, nB ₀ or nB ₁ = 0.8V	1.65		1.0			3.9		
			2.7		0.040			0.075		
ΔR_{ON}	On Resistance Matching Between Channels ⁽⁵⁾	I _{OUT} = 100mA, nB ₀ or nB ₁ = 0.7V	2.3		0.040			0.080	Ω	
			1.65		0.1					
		100mA = D ==== D	2.7					0.25		
R _{FLAT(ON)}	On Resistance Flatness ⁽⁶⁾	$I_{OUT} = 100 \text{mA}, \text{ nB}_0 \text{ or nB}_1$ = 0V to V _{CC}	2.3					0.3	Ω	
			1.65		0.3					
I _{CC}	Quiescent Supply Current	$V_{IN} = 0V \text{ or } V_{CC}, I_{OUT} = 0A$	3.6	-100		100	-500	500	nA	

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Notes:

- 4. On resistance is determined by the voltage drop between A and B pins at the indicated current through the switch.
- 5. $\Delta R_{ON} = R_{ONmax} R_{ONmin}$ measured at identical V_{CC}, temperature, and voltage.
- Flatness is defined as the difference between the maximum and minimum value of R_{ON} over the specified range of conditions.

FSA2267A DC Electrical Characteristics

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

Symbol	Parameter	Conditions	v _{cc}	Т	= +25	= +25°C		T _A = −40 to +85°C	
			(V)	Min.	Тур.	Max.	Min.	Max.	
			3.6 to 4.3				1.7		
V _{IH}	Input Voltage High		2.7 to 3.6				1.5		V
			2.3 to 2.7				1.4		
			3.6 to 4.3					0.7	
V _{IL}	Input Voltage Low		2.7 to 3.6					0.5	V
			2.3 to 2.7					0.4	
I _{IN}	Control Input Leakage	$V_{IN} = 0V$ to V_{CC}	2.3 to 4.3				-0.5	0.5	μA
		$nA = 0.3V, 4.0V, nB_0 \text{ or } nB_1$ = 4.0V, 0.3V or floating	4.3	-10.0		10.0	-100	100	
I _{NO(OFF)} , I _{NC(OFF)}	Off-Leakage Current of Port nB_0 and nB_1	nA = 0.3V, 3.3V, nB ₀ or nB ₁ = 0.3V, 3.3V or floating	3.6	-5.0		5.0	-50	50	nA
		$nA = 0.3V$, 2.4V, nB_0 or $nB_1 = 0.3V$, 2.4V or floating	2.7	-5.0		5.0	-50	50	
I _{A(ON)}	On Leakage Current of Port 1A and 2A	$nA = 0.3V$, 4.0V, nB_0 or $nB_1 = 0.3V$, 4.0V or floating	4.3	-20.0		20.0	-200	200	nA
		$nA = 0.3V$, 3.3V, nB_0 or $nB_1 = 0.3V$, 3.3V or floating	3.6	-5.0		5.0	-50	50	
		nA = 0.3V, 3.3V, nB ₀ or nB ₁ = 0.3V, 3.3V or floating	2.7	-5.0		5.0	-50	50	
		I _{OUT} = 100mA, nB ₀ or nB ₁ = 0V, 0.7V, 3.6V, 4.3V	4.3		0.35			0.6	Ω
R _{ON}	Switch On Resistance ⁽⁷⁾	I _{OUT} = 100mA, nB ₀ or nB ₁ = 0V, 0.7V, 2.3V, 3.0V	3.0		0.35			0.6	
		I _{OUT} = 100mA, nB ₀ or nB ₁ = 0V, 0.7V, 2.0V, 2.7V	2.7		0.35			0.6	
		$I_{OUT} = 100$ mA, nB ₀ or nB ₁ = 0.8V	1.65		1.0				
			4.3		0.04			0.075	
٨D	On Resistance Matching Between Channels ⁽⁸⁾	I _{OUT} = 100mA, nB ₀ or nB ₁ = 0.7V	3.0		0.04			0.075	
ΔR_{ON}	See Figure 10	$1_{OUT} = 10011A, 11B_0 0111B_1 = 0.7V$	2.7		0.04			0.075	Ω
			1.65		0.1				
			4.3		0.15			0.25	
D	On Resistance	$I_{OUT} = 100 \text{mA}, \text{ nB}_0 \text{ or } \text{nB}_1 = 0 \text{V}$	3.0		0.15			0.25	0
R _{FLAT(ON)}	Flatness ⁽⁹⁾	to V _{CC}	2.7		0.15			0.25	Ω
			1.65		0.3				
I _{CC}	Quiescent Supply Current	$V_{IN} = 0V \text{ or } V_{CC}, I_{OUT} = 0A$	4.3	-100	80	100	-500	500	nA
	Increase in I _{CC} per Input	V _{IN} = 1.8V	12		7.0	10.0		15.0	
ICCT	increase in iCC her inhur	V _{IN} = 2.6V	4.3		0.5	2.0		7.0	μA

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Notes:

- 7. On resistance is determined by the voltage drop between A and B pins at the indicated current through the switch.
- 8. $\Delta R_{ON} = R_{ONmax} R_{ONmin}$ measured at identical V_{CC}, temperature, and voltage.
- 9. Flatness is defined as the difference between the maximum and minimum value of R_{ON} over the specified range of conditions.

FSA2267 AC Electrical Characteristics

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

Symbol	Parameter	ter Conditions	V _{CC}	Тд	T _A = +25°C			-40 to 5°C	Units	Figure Number	
			(V)	Min.	Тур.	Max.	Min.	Max.			
			2.7 to 3.6		30.0	38.0		42.0	ns	ns	
t _{ON}	Turn-On Time	$nB_0 \text{ or } nB_1 = 1.5V,$ $R_1 = 50\Omega, C_1 = 35 \text{ pF}$	2.3 to 2.7		29.0	37.0		40.0			ns
			1.65 to 1.95		27.0	35.0		38.0			
			2.7 to 3.6		13.0	16.0		18.0			
t _{OFF}	Turn-Off Time	nB ₀ or nB ₁ = 1.5V, R _L = 50Ω, C _L = 35 pF	2.3 to 2.7		14.0	18.0		20.0	ns	Figure 11	
			1.65 to 1.95		15.0	21.0		25.0			
			2.7 to 3.6		17.0		2.0				
t _{BBM}	Break-Before- Make Time	nB ₀ or nB ₁ = 1.5V, R _L = 50Ω, C _L = 35 pF	2.3 to 2.7		15.0		2.0		ns	ns	Figure 12
			1.65 to 1.95		12.0		2.0				
		$C_{L} = 100 \text{ pF}, \text{ V}_{\text{GEN}} = 0\text{V},$ $R_{\text{GEN}} = 0\Omega$	2.7 to 3.6		9.0						
Q	Charge Injection	$\label{eq:classical_constraint} \begin{split} & \textbf{C}_{\text{L}} = 100 \text{ pF}, \textbf{V}_{\text{GEN}} = 0 \textbf{V}, \\ & \textbf{R}_{\text{GEN}} = 0 \Omega \end{split}$	2.3 to 2.7		9.0				pC	Figure 14	
		$C_L = 100 \text{ pF}, V_{GEN} = 0V,$ $R_{GEN} = 0\Omega$	1.65 to 1.95		9.0						
			2.7 to 3.6		-80.0						
OIRR	Off Isolation	f = 100kHz, $R_L = 50\Omega$, $C_L = 5pF$ (Stray)	2.3 to 2.7		-80.0				dB	Figure 13	
		(ondy)	1.65 to 1.95		-80.0						
			2.7 to 3.6		-80.0						
Xtalk	Crosstalk	f = 100kHz, $R_L = 50\Omega$, $C_L = 5pF$ (Stray)	2.3 to 2.7		-80.0				dB	Figure 13	
		(Ondy)	1.65 to 1.95		-80.0						
BW	-3db Bandwidth	$R_L = 50\Omega$	1.65 to 3.6		45.0				MHz	Figure 16	
		$\begin{aligned} R_{L} &= 32\Omega, \ V_{IN} = 2V_{pk-pk}, \\ f &= 20Hz \text{ to } 20kHz \end{aligned}$	2.7 to 3.6		0.024						
THD	Total Harmonic Distortion	$R_L = 32\Omega$, $V_{IN} = 1.5V_{pk-pk}$, f = 20Hz to 20kHz	2.3 to 2.7		0.015				%	Figure 17	
		$\begin{aligned} R_{L} &= 32\Omega, V_{IN} = 1.2 V_{pk\text{-}pk}, \\ f &= 20Hz \text{ to } 20kHz \end{aligned}$	1.65 to 1.95		0.35						

FSA2267A AC Electrical Characteristics

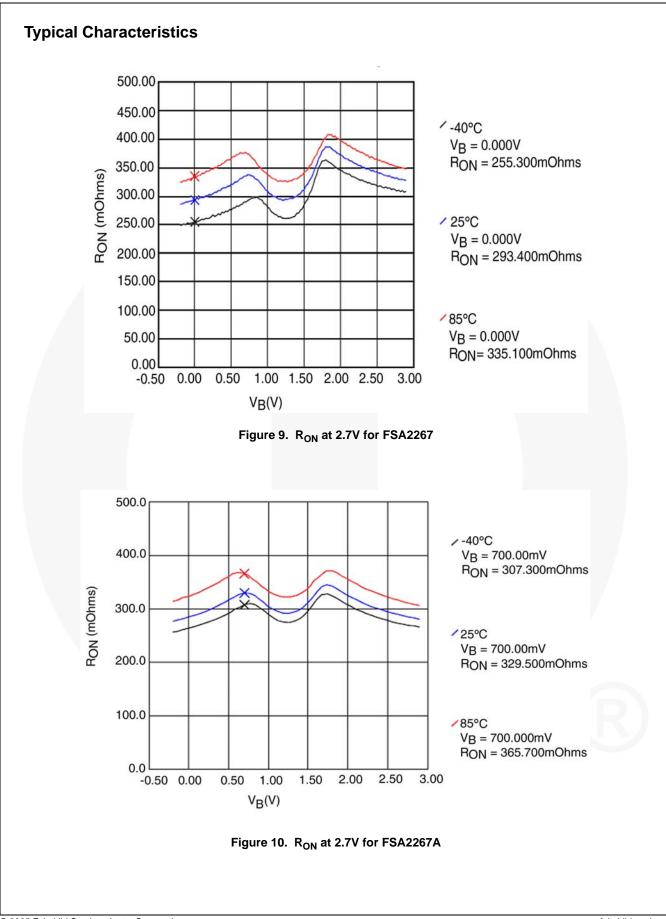
All typical value are at 25°C unless otherwise specified.

Symbol	Parameter	Conditions	V _{CC} (V)	Тд	(= +25	5°C		-40 to 5°C	Units	Figure Number			
				Min.	Тур.	Max.	Min.	Max.		Number			
			3.6 to 4.3		37.0	46.0		48.0					
+	Turn On Time	$nB_0 \text{ or } nB_1 = 1.5V,$	2.7 to 3.6		37.0	50.0		57.0		Figure 11			
t _{ON}	rum-On nime	rn-On Time $R_L = 50\Omega, C_L = 35pF$	2.3 to 2.7		60				ns	Figure 11			
			1.65		570								
			3.6 to 4.3		15.0	23.0		25.0					
	Turn Off Time	$nB_0 \text{ or } nB_1 = 1.5V,$	2.7 to 3.6		16.0	30.0		30.0		Figure 11			
t _{OFF}	Turn-Off Time	$R_{L} = 50\Omega, C_{L} = 35pF$	2.3 to 2.7		50.0				ns	Figure 11			
			1.65		500								
	7		3.6 to 4.3		8.0		2.0		ns				
t _{BBM}	Break-Before- Make Time	nB ₀ or nB ₁ = 1.5V, R _L = 50Ω, C _L = 35pF	2.7 to 3.6		8.0		2.0			Figure 12			
	Make Time	NL = 3022, OL = 3301	2.3 to 2.7		8.0		2.0						
		$\label{eq:CL} \begin{split} &C_{L} = 100 \; pF, \; V_{GEN} = 0V, \\ &R_{GEN} = 0\Omega \end{split}$	3.6 to 4.3		24.0								
Q	Charge Injection	$\label{eq:classical_constraint} \begin{split} & C_{L} = 100 \; pF, \; V_{GEN} = 0V, \\ & R_{GEN} = 0\Omega \end{split}$	2.7 to 3.6		24.0				рС	Figure 14			
		$\label{eq:CL} \begin{split} & \textbf{C}_{\text{L}} = 100 \text{ pF}, \textbf{V}_{\text{GEN}} = 0 \textbf{V}, \\ & \textbf{R}_{\text{GEN}} = 0 \Omega \end{split}$	2.3 to 2.7		24.0								
			3.6 to 4.3		-75.0								
OIRR	Off Isolation	$f = 100$ kHz, $R_L = 50\Omega$, $C_L = 5$ pF (Stray)	2.7 to 3.6		-75.0				dB	Figure 13			
			2.3 to 2.7		-75.0								
			3.6 to 4.3		-70.0								
Xtalk	Crosstalk	f = 100kHz, $R_L = 50\Omega$, $C_L = 5pF$ (Stray)	2.7 to 3.6		-70.0				dB	Figure 13			
			2.3 to 2.7		-70.0								
BW	-3db Bandwidth	$R_L = 50\Omega$	2.3 to 4.3		45.0				MHz	Figure 16			
		$\begin{aligned} R_{L} &= 32\Omega, \ V_{IN} = 2V_{pk-pk}, \\ f &= 20Hz \text{ to } 20kHz \end{aligned}$	3.6 to 4.3		0.02								
THD	Total Harmonic Distortion	$\begin{aligned} R_{L} &= 32\Omega, V_{IN} = 1.5 V_{pk\text{-}pk}, \\ f &= 20Hz \text{ to } 20kHz \end{aligned}$	2.7 to 3.6		0.02				%	Figure 17			
		$\begin{aligned} R_{L} &= 32\Omega, V_{IN} = 1.2 V_{pk\text{-}pk}, \\ f &= 20Hz \text{ to } 20kHz \end{aligned}$	2.3 to 2.7		0.02								

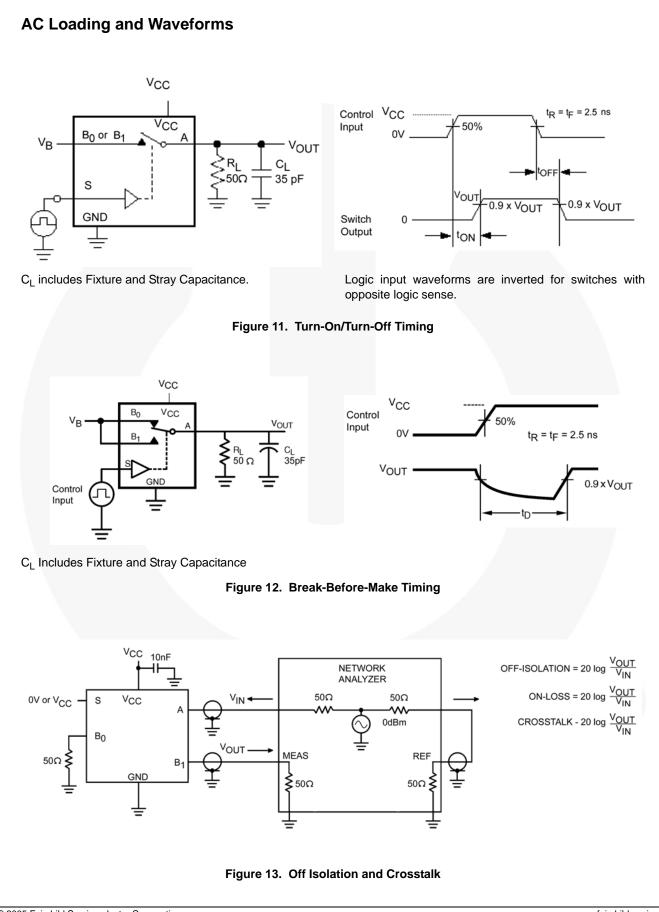
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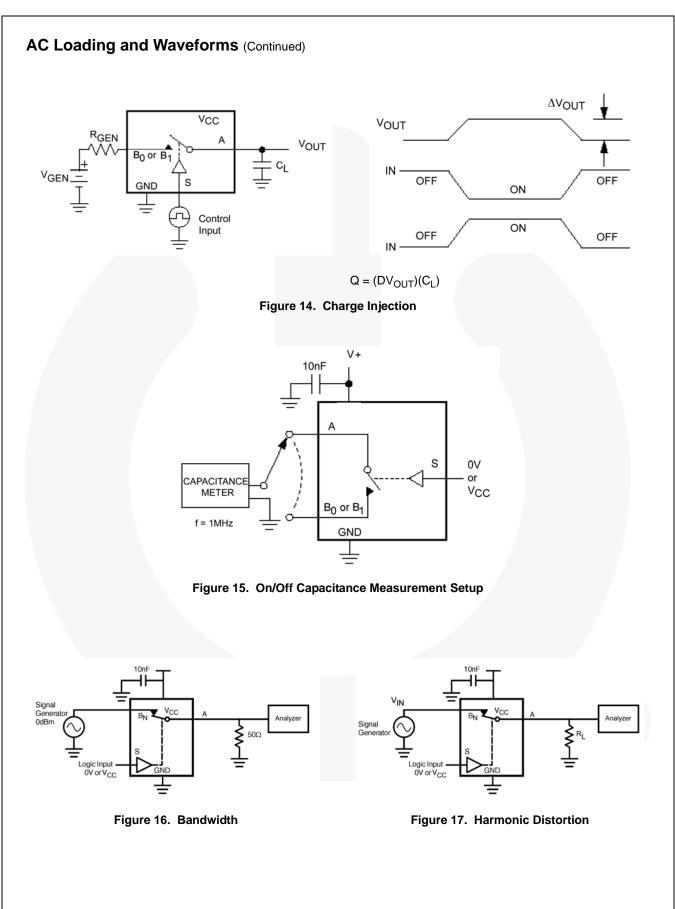
Capacitance

Symbol	Parameter	Conditions	V _{CC} (V)	T _A	, = +25	5°C	T _A = - +8	-40 to 5°C	Units	Figure Number
				Min.	Тур.	Max.	Min.	Max.		
C _{IN}	Control Pin Input Capacitance	f = 1Mhz	0.0		1.5				pF	Figure 15
C _{OFF}	B Port Off Capacitance	f = 1Mhz	3.3		30.0				pF	Figure 15
C _{ON}	A Port On Capacitance	f = 1Mhz	3.3		126				рF	Figure 15

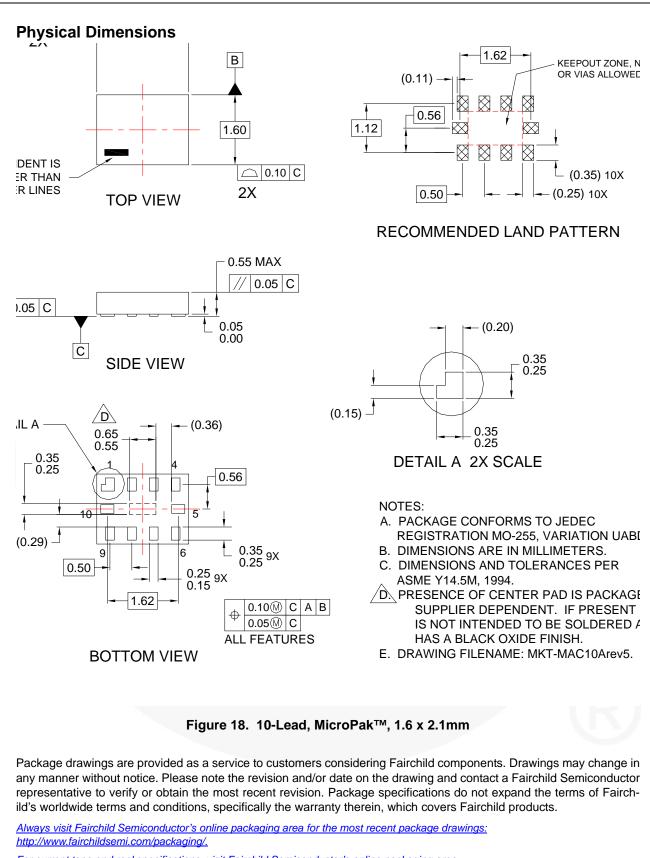


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For current tape and reel specifications, visit Fairchild Semiconductor's online packaging area: http://www.fairchildsemi.com/products/logic/pdf/micropak_tr.pdf.

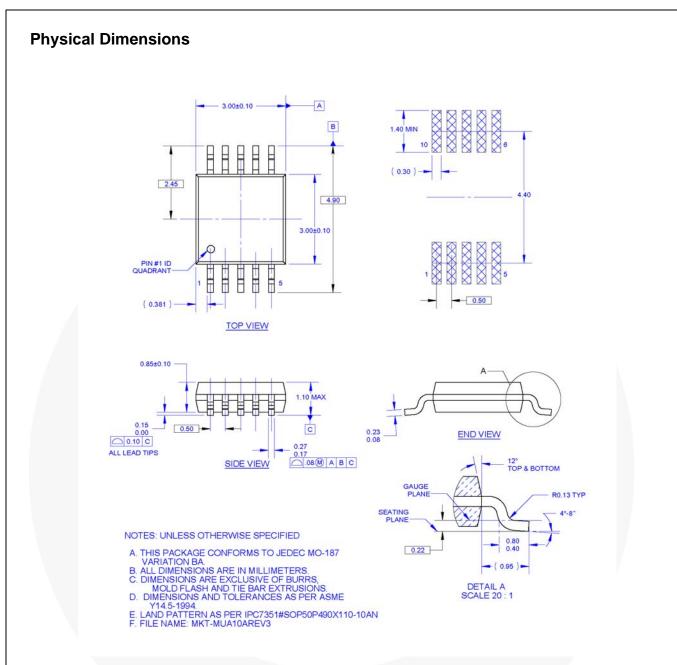


Figure 19. Pb-Free, 10-Lead, Molded Small Outline Package (MSOP), JEDEC MO-187, 3.0mm Wide

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