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September 2010

# FSAV330 — 4-Channel, 2:1 Video Switch

#### **Features**

- Replacement for the P15V330
- Wide Bandwidth: 300MHz
- $4\Omega$  Switch Connection between Two Ports
- Minimal Propagation Delay through the Switch
- Low I<sub>CC</sub>
- Zero Bounce in Flow-through Mode
- Control Inputs Compatible with TTL Level

### **Applications**

- Set-Top Boxes
- Flat Panel Displays
- CRT Displays
- DVD RW

### **Description**

The FSAV330 video switch is a quad, single-pole / double-throw, high-speed CMOS TTL-compatible video switch. The low on resistance of the switch allows inputs to be connected to outputs without adding propagation delay or generating additional ground bounce noise.

When /OE is LOW, the select pin connects the A port to the selected B port output. When /OE is HIGH, the switch is OPEN and a high-impedance state exists between the two ports.

### **Ordering Information**

Part Number	Operating Temperature Range	Package	Packing Method
FSAV330MX	-40 to +85°C	16-Lead, Small Outline Integrated Circuit (SOIC), JEDEC MS-012, 0.150 inch Narrow	Tape and Reel
FSAV330MTCX	-40 to +85°C	16-, Thin Shrink Small Outline Package (TSSOP), JEDEC MO-153, 4.4mm Wide	Tape and Reel
FSAV330QSCX	-40 to +85°C	16-Lead, Quarter Size Outline Package (QSOP), JEDEC MO-137, 0.150 inch Wide	Tape and Reel

The Fairchild switch family derives from and embodies Fairchild's proven switch technology used for several years in its 74LVX3L384 (FST3384) bus switch product.

### **Pin Configurations**

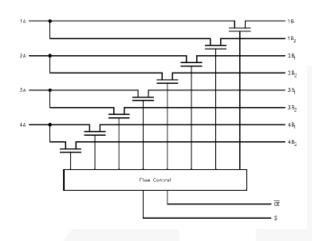


Figure 1. Logic Diagram

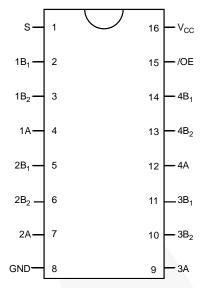


Figure 2. Pin Assignments

### **Pin Descriptions**

Pin #	Name	Description
15	/OE	Bus Switch Enabled
1	S	Select Input
4,7,9,12	Α	Bus A
2,3,5,6,10,11,13,14	B <sub>1</sub> -B <sub>2</sub>	Bus B
8	GND	Ground
16	V <sub>CC</sub>	Supply Voltage

# **Truth Table**

S	/OE	Function
Don't Care	HIGH	Disconnected
LOW	LOW	A=B <sub>1</sub>
HIGH	LOW	A=B <sub>2</sub>

### **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 <sub>CC</sub>	Supply Voltage	-0.5	+7.0	V
Vs	DC Switch Voltage	-0.5	+7.0	V
V <sub>IN</sub>	DC Input Voltage <sup>(1)</sup>	-0.5	+7.0	V
I <sub>IK</sub>	DC Input Diode Current	-50		mA
l <sub>OUT</sub>	DC Output Sink Current		128	mA
I <sub>CC</sub> /I <sub>GND</sub>	DC V <sub>CC</sub> / GND Current		±100	mA
T <sub>STG</sub>	Storage Temperature Range	-65	+150	°C
ESD	Human Body Model, JESD22-A114		4000	V

#### Note

### **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 <sub>CC</sub>	Power Supply		4.0	5.5	V
V <sub>IN</sub>	Input Voltage	0	5.5	V	
V <sub>OUT</sub>	Output Voltage		0	5.5	V
	Input Dies and Fall Time	Switch Control Input	0	5	ns/V
$t_r, t_f$	Input Rise and Fall Time Switch I/O		0	DC	TIS/V
T <sub>A</sub>	Operating Temperature, Free Air		-40	+85	°C

#### Note:

2. Unused control inputs must be held HIGH or LOW; they may not float.

<sup>1.</sup> The input and output negative voltage ratings may be exceeded if the input and output diode current ratings are observed.

### **DC Electrical Characteristics**

Typical values are at  $V_{CC}$ =5.0V and  $T_A$ = +25°C. Minimum and maximum values are at  $T_A$ = -40 to +85°C.

Symbol	Parameter	Conditions	V <sub>cc</sub> (V)	Min.	Тур.	Max.	Units
V <sub>ANALOG</sub>	Analog Signal Range		5.0	0		2	V
$V_{IK}$	Clamp Diode Voltage	I <sub>IN</sub> =-18mA	4.5			-1.2	V
$V_{IH}$	High-Level Input Voltage		4.0 to 5.5	2.0			V
$V_{IL}$	Low-Level Input Voltage		4.0 to 5.5			0.8	V
l <sub>l</sub>	Input Leakage Current	$0 \le V_{IN} \le 5.5V$	5.5			±1.0	μΑ
loz	Off-State Leakage Current	$0 \le A, B \le V_{CC}$	5.5			±1.0	μΑ
D	Switch On Resistance <sup>(3)</sup>	$V_{IN}=1.0V, R_{I}=75\Omega, I_{ON}=13mA$	4.5		3	7	0
R <sub>ON</sub>	Switch On Resistance	$V_{IN}$ =2.0V, $R_I$ =75 $\Omega$ , $I_{ON}$ =26mA	4.5		7	10	Ω
Icc	Quiescent Supply Current	V <sub>IN</sub> =V <sub>CC</sub> or GND, I <sub>OUT</sub> =0	5.5			3	μΑ
Δl <sub>CC</sub>	Increase in I <sub>CC</sub> per Input	One Input at 3.4V Other Inputs at V <sub>CC</sub> or GND	5.5			2.5	mA

#### Note:

3. Measured by the voltage drop between the A and B pins at the indicated current through the switch. On resistance is determined by the lower of the voltages on the A or B pins.

### **AC Electrical Characteristics**

 $T_A$ =-40 to +85°C,  $C_L$ =50pF,  $R_U$ = $R_D$ =500 $\Omega$ .

Symbol	Parameter	Conditions	Vcc	<sub>c</sub> =4.5 – 5	5.5V	V <sub>CC</sub> =4.0V		Units	Figure	
Symbol	Parameter	Conditions	Min.	Тур.	Max.	Min.	Max.	Units	rigure	
	Output Enable Time, Select to Bus B	V <sub>I</sub> =7V for t <sub>PZL</sub>			5.2		5.7	Figure 3		
t <sub>PZH</sub> , t <sub>PZL</sub>	Output Enable Time, /OE to Bus A, B	V <sub>I</sub> =Open for t <sub>PZH</sub>			5.1		5.6	115	ns Figure 4	
	Output Disable Time, Select to Bus B				5.2		5.5		Figure 2	
t <sub>PHZ</sub> , t <sub>PLZ</sub>	Output Disable Time, Output Enable Time /OE to Bus A, B	V <sub>I</sub> =7V for t <sub>PLZ</sub> V <sub>I</sub> =Open for t <sub>PHZ</sub>			5.5		5.5	ns	Figure 3 Figure 4	
$B_W$	-3dB Bandwidth <sup>(4)</sup>	R <sub>L</sub> =150Ω, T <sub>A</sub> =25°C	300					MHz		
X <sub>TALK</sub>	Crosstalk	$R_{IN}$ =10 $\Omega$ , $R_L$ =150 $\Omega$ , f=10MHz		-58				dB		
D <sub>G</sub>	Differential Gain	$R_L=150\Omega$ , $f=3.58MHz$		0.64				%		
D <sub>P</sub>	Differential Phase	$R_L$ =150 $\Omega$ , f=3.58MHz		0.1				0		
O <sub>IRR</sub>	Off Isolation	R <sub>L</sub> =150Ω, f=10MHz		-60				dB		

### Note:

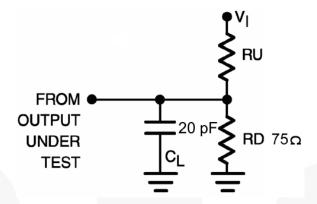
4. This parameter is guaranteed by device characterization, not production tested.

### Capacitance

T<sub>A</sub>=+25°C, f=1MHz. Capacitance is characterized, not production tested.

Sy	/mbol	Parameter	Conditions	Тур.	Units
C <sub>IN</sub> Control Pin Input Capacitance		Control Pin Input Capacitance	V <sub>CC</sub> =5.0V	3	pF
	A Port	Leavet / Outract Consistence	V (05.5.0V)	7	L
C <sub>1/O</sub>	C <sub>I/O</sub> B Port Input / Output Capacitance		V <sub>CC</sub> , /OE=5.0V	5	pF
	C <sub>ON</sub>	Switch On Capacitance	V <sub>CC</sub> =5.0V, /OE=0V	12	pF

### **AC Loadings and Waveforms**



#### Notes:

- Input drive by  $50\Omega$  source terminated in  $50\Omega$ .  $C_L$  includes load and stray capacitance. Input PRR=1.0MHz,  $t_W$ =500ns.

Figure 3. AC Test Circuit

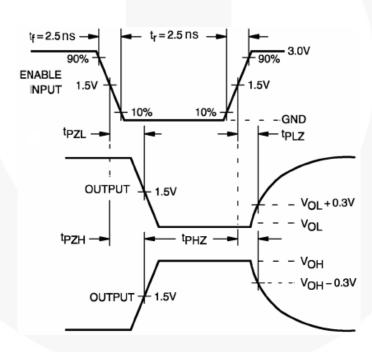


Figure 4. AC Waveforms

### **Physical Dimensions**

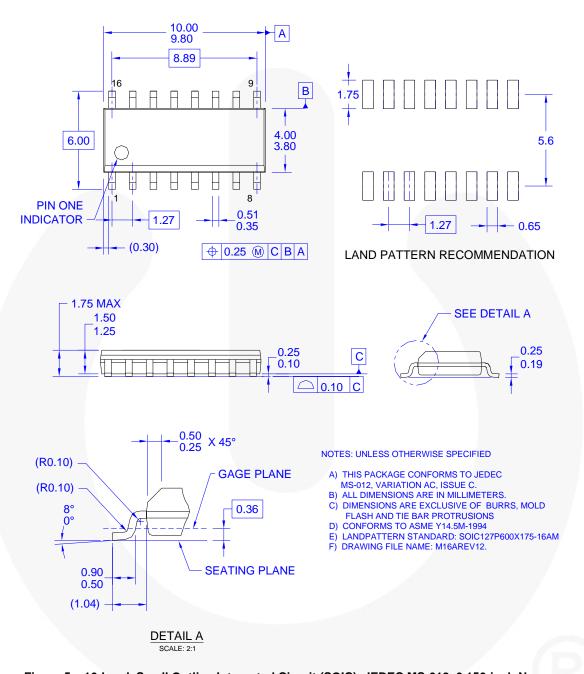


Figure 5. 16-Lead, Small Outline Integrated Circuit (SOIC), JEDEC MS-012, 0.150-inch Narrow

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#### ○ 0.10 M A-B [.197](3.7)[.280] [.146] 3.9 [.154] [.236] (0.635) 0.10 M A-B (0.317)[.025] [.013] ○ 0.20 M C 0.635 2X N/2 TIPS [.025] 0.27 LAND PATTERN [.011] **TOP VIEW** RECOMMENDATION 1.357±0.127 DETAIL A ○ 0.10 M C 16 X [.053±0.005] -10°±5 0.010 1.6±0.05 [.063±0.002] **END VIEW** SIDE VIEW 0.5 ×45° [.02 ×45°] R0.09 Min-GAGE NOTES : .254 PLANE $4^{\circ} + 4^{\circ}$ [0.010] A. THIS PACKAGE CONFORMS TO JEDEC MO-137 VARIATION AB B. PRIMARY DIMENSIONS IN MILLIMETERS SEATING REFERENCE DIMENSIONS IN INCHES [0.020-0.0295] C. DRAWING CONFORMS TO PLANE ASME Y14.5M-1994 D. DIMENSIONS ARE EXCLUSIVE OF BURRS, [0.039] **DETAIL A** MOLD FLASH, AND TIE BAR EXTRUSIONS

Figure 6. 16-Lead, Quarter Size Outline Package (QSOP), JEDEC MO-137, 0.150-inch Wide

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MQA16AREVB

**Physical Dimensions** 

### **Physical Dimensions** 5.00±0.10 4.55 5.90 4.45 7.35 В 6.4 0.65 $4.4 \pm 0.1$ 1.45 3.2 ALL LEAD TIPS 5.00 PIN #1 IDENT. LAND PATTERN RECOMMENDATION (F) 0.11 SEE DETAIL A ALL LEAD TIPS 1.1 MAX (0.90)○ 0.1 C 0.09-0.20 -C-0.10±0.05 0.65 0.19 - 0.30 TOP AND BOTTOM ⊕ 0.10M A BS CS **GAGE PLANE** NOTES: 0.25 0°-8° A. CONFORMS TO JEDEC REGISTRATION MO-153, VARIATION AB, **B. DIMENSIONS ARE IN MILLIMETERS** C. DIMENSIONS ARE EXCLUSIVE OF BURRS, MOLD FLASH, AND TIE BAR EXTRUSIONS 0.6±0.1 SEATING PLANE D. DIMENSIONING AND TOLERANCES PER ANSI Y14.5M, 1994 E. DRAWING FILE NAME: MTC16REV4 **DETAIL** A F. LAND PATTERN RECOMMENDATION PER IPC7351 - ID# TSOP65P640X110-16N

MTC16rev4

Figure 7. 16-Lead, Thin Shrink Small Outline Package (TSSOP), JEDEC MO-153, 4.4mm Wide

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