

#### Features

- Low Supply Current: I<sub>DD</sub> 6 µA (Typical)
- Single Power Supply Operation
- Wide Common-Mode Input Voltage Range
- Push-Pull Output Circuit
- Low Input Bias Current
- Internal Hysteresis
- Packaged in MicroPak<sup>™</sup> 6

# Applications

- Mobile Phones
- Alarm and Security Systems
- Personal Digital Assistants

# Description

The FAN156 is a low-power single comparator that typically consumes less than 10  $\mu$ A of supply current. It is guaranteed to operate at a low voltage of 1.6 V and is fully operational up to 5.5 V, making it convenient for use in 1.8, 3.0 V, and 5.0 V systems.

The FAN156 has a complementary push-pull P- and Nchannel output stage capable of driving a rail-to-rail output swing with a load ranging up to 5.0 mA.



#### **Ordering Information**

Part Number	Top Mark	Operating Temperature Range	Package	Packing Method
FAN156L6X	CN	-40 to 85°C	6-Lead, MicroPak™, 1 x 1.45 mm Wide	5000 Units on Tape and Reel

# Pin Configuration OUT 1 6 VSS 2 5 IN+ 3 4



# **Pin Definitions**

Pin #	Name	Description
1	OUT	Comparator Output
2	V <sub>SS</sub>	Negative Supply Voltage
3	IN+	Non-Inverting Input
4	IN-	Inverting Input
5	NC	No Connect
6	V <sub>DD</sub>	Positive Supply Voltage

# **Function Table**

Inputs	Outputs
IN(-) > IN(+)	Output LOW
IN(+) > IN(-)	Output HIGH



# **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	Condition	Min.	Max.	Unit
V to V	Supply Maltage		-3.0	+3.0	V
V <sub>DD</sub> IO V <sub>SS</sub>	Supply Voltage		0	6.0	V
DV <sub>IN</sub>	Differential Input Voltage			±6	
V <sub>IN</sub>	Input Voltage			$V_{\text{SS}}$ to $V_{\text{DD}}$	V
ts	Output Short Circuit Duration <sup>(1)</sup>			Indefinite	S
TJ	Junction Temperature			+150	°C
T <sub>STG</sub>	Storage Temperature Range		-65	+150	°C
PD	Power Dissipation			194	mW
$\Theta_{JA}$	Thermal Resistance			335	°C/W
		Air Gap		15	
	IEC 61000-4-2 System ESD	Contact		8	
		All Pins		8	
ESD	JEDEC JESD22-A114, Human Body Model	Pin to Pin: IN(-), IN(+) to $V_{DD}$ or VSS		12	kV
	JEDEC JESD22-C101, Charged Device Model	All Pins		2	

Note:

1. The maximum total power dissipation must not be exceeded.

# **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	Condition	Min.	Max.	Unit
V to V	Devuer Currely		-2.75	+2.75	V
V <sub>DD</sub> to V <sub>SS</sub>	Power Supply		0	5.50	v
V <sub>DD</sub>	Power Supply	V <sub>SS</sub> 0 V	1.6	5.5	V
V <sub>IN</sub>	Input Voltage			$V_{\text{SS}}$ to $V_{\text{DD}}$	V
		V <sub>DD</sub> 5.0 V		5	
I <sub>OH</sub> /I <sub>OL</sub>	Output Sink/Source Current	V <sub>DD</sub> 3.0 V		3	mA
		V <sub>DD</sub> 1.6 V		1	
T <sub>A</sub>	Operating Temperature, Free Air		-40	+85	°C

Symbol	Parameter	Condition	Min.	Тур.	Max.	Unit
/ <sub>DD</sub> =5.5V, V <sub>S</sub>	<sub>s=</sub> GND, and T <sub>A</sub> =+25°C					
V <sub>HYS</sub>	Input Hysteresis	V <sub>CM</sub> =0.5 V <sub>DD</sub>		4		mV
V <sub>IO</sub>	Input Offset Voltage <sup>(2)</sup>	V <sub>CM</sub> =0.5 V <sub>DD</sub>	-15	±1	+15	mV
I <sub>IO</sub>	Input Offset Current			10		pА
l <sub>i</sub>	Input Bias Current			10		pА
V <sub>CM</sub>	Common Mode Input Voltage		V <sub>SS</sub>		V <sub>DD</sub>	V
CMRR	Common Mode Rejection Ratio <sup>(3)</sup>	V <sub>CM</sub> =V <sub>DD</sub>		68		dB
I <sub>DD</sub>	Supply Current			6	17	μA
PSRR	Power Supply Rejection Ratio <sup>(3)</sup>	ΔV <sub>DD</sub> =0.5 V	45	80		dB
		Vo=VDD		60		
I <sub>OS</sub>	Output Short Circuit Current	V <sub>O</sub> =V <sub>SS</sub>		90		mA
Vol	Low-Level Output Voltage	I <sub>SINK</sub> =5.0 mA		0.1	0.3	V
V <sub>он</sub>	High-Level Output Voltage	I <sub>SOURCE</sub> =5.0 mA	5.2	5.4		V
t <sub>PLH</sub>	Propagation Delay (Turn-On)	Overdrive 20 mV, $C_L$ =15 pF		0.40		μs
t <sub>PHL</sub>	Propagation Delay (Turn-Off)	Overdrive=20 mV, C <sub>L</sub> =15 pF		0.42		μs
t <sub>TLH</sub>		0.50.55		4.0		
t <sub>THL</sub>	- Response Time, Output Rise/Fall <sup>(4)</sup>	C <sub>L</sub> =50 pF		5.4		ns
/ <sub>dd</sub> =3V, V <sub>ss</sub> =	=GND, and T <sub>A</sub> =+25°C					
V <sub>HYS</sub>	Input Hysteresis	V <sub>CM</sub> =0.5 V <sub>DD</sub>		4		mV
V <sub>IO</sub>	Input Offset Voltage <sup>(2)</sup>	V <sub>CM</sub> =0.5 V <sub>DD</sub>	-15	±1	+15	mV
I <sub>IO</sub>	Input Offset Current			10		pА
I <sub>I</sub>	Input Bias Current			10		pА
V <sub>CM</sub>	Common Mode Input Voltage		V <sub>SS</sub>		V <sub>DD</sub>	V
CMRR	Common Mode Rejection Ratio <sup>(3)</sup>	V <sub>CM</sub> =V <sub>DD</sub>		60		dB
I <sub>DD</sub>	Supply Current			5.5	15.0	μA
PSRR	Power Supply Rejection Ratio <sup>(3)</sup>	ΔV <sub>DD</sub> =0.5 V	45	80		dB
		V <sub>O</sub> =V <sub>DD</sub>		27		
los	Output Short Circuit Current	Vo=Vss		35		mA
V <sub>OL</sub>	Low-Level Output Voltage	I <sub>SINK</sub> =3.0 mA		0.15	0.35	V
V <sub>OH</sub>	High-Level Output Voltage	I <sub>SOURCE</sub> =3.0 mA	2.65	2.85		V
t <sub>PLH</sub>	Propagation Delay (Turn-On)	Overdrive=20 mV, $C_L$ =15 pF		0.45		μs
t <sub>PHL</sub>	Propagation Delay (Turn-Off)	Overdrive=20 mV, $C_L$ =15 pF		0.47		μs
tтьн				6.1	1	
t <sub>THL</sub>	Response Time, Output Rise/Fall <sup>(4)</sup>	C <sub>L</sub> =50pF		6.2		ns

Continued on the following page...

Symbol	Parameter	Condition	Min.	Тур.	Max.	Unit
V <sub>DD</sub> 1.6V, V <sub>S</sub>	s GND, and T <sub>A</sub> =+25°C					
V <sub>HYS</sub>	Input Hysteresis	V <sub>CM</sub> =0.5 V <sub>DD</sub>		3.5		mV
V <sub>IO</sub>	Input Offset Voltage <sup>(2)</sup>	V <sub>CM</sub> =0.5 V <sub>DD</sub>	-15	±1	+15	mV
I <sub>IO</sub>	Input Offset Current			10		pА
lı	Input Bias Current			10		pА
$V_{\text{CM}}$	Common Mode Input Voltage		V <sub>SS</sub>		V <sub>DD</sub>	V
CMRR	Common Mode Rejection Ratio <sup>(3)</sup>	V <sub>CM</sub> =V <sub>DD</sub>		56		dB
I <sub>DD</sub>	Supply Current			5	15	μA
PSRR	Power Supply Rejection Ratio <sup>(3)</sup>	$\Delta V_{DD}$ =0.5 V	45	80		dB
los	Output Short Circuit Current	V <sub>O</sub> =V <sub>DD</sub>		5.5		mA
IOS	Output Short Circuit Current	V <sub>O</sub> =V <sub>SS</sub>		7.5		IIIA
Vol	Low-Level Output Voltage	I <sub>SINK</sub> =1.0 mA		0.10	0.25	V
V <sub>OH</sub>	High-Level Output Voltage	I <sub>SOURCE</sub> =1.0 mA	1.35	1.50		V
t <sub>PLH</sub>	Propagation Delay (Turn-On)	Overdrive=20 Mv, $C_L$ =15pF		0.52		μs
t <sub>PHL</sub>	Propagation Delay (Turn-Off)	Overdrive=20 Mv, C∟=15 pF		0.54		μs
t <sub>TLH</sub>	- Response Time, Output Rise/Fall <sup>(4)</sup>			16.5		
t <sub>THL</sub>		C <sub>L</sub> =50 pF		13.0		ns

2. Differential input switching level is guaranteed at the minimum or maximum offset voltage, minus or plus half the maximum hysteresis voltage. Guaranteed by design and characterization data. Input signal: 1 kHz, square-wave signal with 10 ns edge rate.

3.

4.



FAN156 • Rev. 1.0.1

### Typical Performance Characteristics (Continued)





Figure 10. Propagation Delay (t<sub>PLH</sub>) vs. Temperature









Figure 13. Power-Up Delay



Package drawings are provided as a service to customers considering Fairchild components. Drawings may change in any manner without notice. Please note the revision and/or date on the drawing and contact a Fairchild Semiconductor representative to verify or obtain the most recent revision. Package specifications do not expand the terms of Fairchild's worldwide terms and conditions, specifically the warranty therein, which covers Fairchild products.

Always visit Fairchild Semiconductor's online packaging area for the most recent package drawings: <u>http://www.fairchildsemi.com/packaging/</u>.

# **Tape and Reel Specifications**

Please visit Fairchild Semiconductor's online packaging area for the most recent tape and reel specifications: <u>http://www.fairchildsemi.com/products/logic/pdf/micropak\_tr.pdf</u>.

Package Designator	Tape Section	Cavity Number	Cavity Status	Cover Type Status
	Leader (Start End)	125 (Typical)	Empty	Sealed
L6X	Carrier	5000	Filled	Sealed
	Trailer (Hub End)	75 (Typical)	Empty	Sealed

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