



High performance video signal switcher

Five inputs Dual Circuits Video Signal Switchers

BA7626F/FS

Description

The BA7626F/FS is a 5-input video signal switching circuit with a broadband 6 dB amplifier that was developed for AV amplifier input switching. Just by devising a transistor buffer in the output, player switching of two VCR or other videotape players and three DVD players or other playback devices is possible. Moreover, input switching and switching of recording to a VCR or other device also can be performed independently.

Since the input circuit of the BA7626F/FS is terminated by $20k\Omega$ impedance, it is suited to not only video signal but also chroma signal or audio signal switching.

Features

- 1) 5 input line, 3 output line switching
- 2) Built-in 6 dB amplifier
- 3) 5V operating voltage
- 4) $20k\Omega$ input impedance

Use

AV amplifiers, Video selectors, etc.

Lineup

Part No.	BA7626F	BA7626FS				
Package	SOP16	SSOP-A16				
Input type	Bias (R=20kΩ)					

Absolute Maximum Ratings(Ta=25°C)

Param	eter	Symbol	Limits	Unit	
Supply voltage	_	Vcc	9	V	
Power	BA7626F	D4	300 ※1	mW	
dissipation	BA7626FS	Pd	600 ※2		
Operating temper	ature	Topr	-25~+70	°C	
Storage temperate	ure	Tstg	-55 ~ +125	°C	

^{※1} Deratings is done at 3.0mW/°C above Ta=25°C. (BA7626F)

Operating Range(Ta=25°C)

Parameter	Symbol	Min	Тур	Max	Unit
Power supply voltage	Vcc	4.5	5.0	5.5	V

Aug.2008

Deratings is done at 6.0mW/°C above Ta=25°C. (BA7626FS)

•Electrical characteristics (Unless otherwise noted Ta=25°C, Vcc=5.0V)

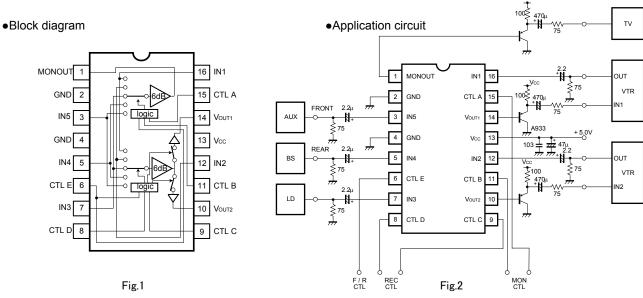
Paramete	Symbol	Min.	Typ.	Max.	Unit	Conditions	
Circuit current		ICC	_	15.0	20.0	mA	_
Maximum output level	BA7626F/FS		2.3	2.5	_	Vp-p	f=1kHz, THD=0.5%
Voltage gain		G_V	5.7	6.2	6.7	dB	f=1MHz, V _{IN} =1Vp-p
Interchannel crosstalk		G_T	_	-65	-45	dB	f=4.43MHz, V _{IN} =1Vp-p
Mute level		CTM	_	-35	-25	dB	f=4.43MHz, V _{IN} =1Vp-p
Frequency characteristic		G_f	-3	0	+3	dB	10MHz/1MHz, V _{IN} =1Vp-p
Input inpeda	Z _{IN}	16	20	24	kΩ		
CTL pin switchi	V_{TH}	2.2	_	3.3	V	_	

[※] This product is not designed for protection against radioactive rays.

Truth table

	Input		Output		Input		Output	Input			Output
Α	В	Е	MONOUT	С	D	Е	VOUT1	С	D	Е	VOUT2
L	L	*	IN1	L	L	*	_	L	L	*	IN1
Н	L	*	IN2	Н	L	*	IN2	Н	L	*	_
L	Н	*	IN3	L	Н	*	IN3	L	Н	*	IN3
Н	Н	L	IN4	Н	Н	L	IN4	Н	Н	L	IN4
Н	Н	Н	IN5	Н	Н	Н	IN5	Н	Н	Н	IN5

image: Market indicates "don't care" (H or L)

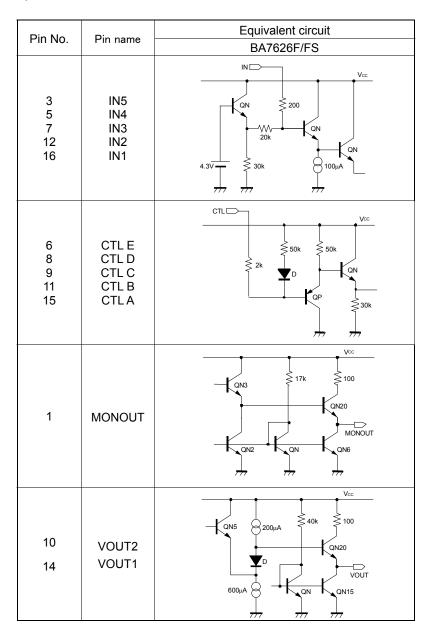


•Cautions on use

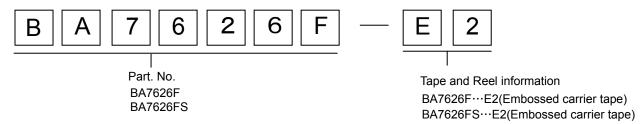
- 1) Numbers and data in entries are representative design values and are not guaranteed values of the items.
- 2) Although we are confident in recommending the sample application circuits, carefully check their characteristics further when using them. When modifying externally attached component constants before use, determine them so that they have sufficient margins by taking into account variations in externally attached components and the Rohm LSI, not only for static characteristics but also including transient characteristics.
- 3) Absolute maximum ratings

If applied voltage, operating temperature range, or other absolute maximum ratings are exceeded, the LSI may be damaged. Do not apply voltages or temperatures that exceed the absolute maximum ratings. If you think of a case in which absolute maximum ratings are exceeded, enforce fuses or other physical safety measures and investigate how not to apply the conditions under which absolute maximum ratings are exceeded to the LSI.

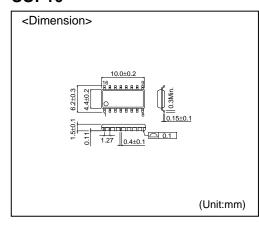
- 4) GND potential
 - Make the GND pin voltage such that it is the lowest voltage even when operating below it. Actually confirm that the voltage of each pin does not become a lower voltage than the GND pin, including transient phenomena.
- 5) Thermal design
 - Perform thermal design in which there are adequate margins by taking into account the allowable power dissipation in actual states of use.
- 6) Shorts between pins and misinstallation
 - When mounting the LSI on a board, pay adequate attention to orientation and placement discrepancies of the LSI. If it is misinstalled and the power is turned on, the LSI may be damaged. It also may be damaged if it is shorted by a foreign substance coming between pins of the LSI or between a pin and a power supply or a pin and a GND.
- 7) Operation in strong magnetic fields
 - Adequately evaluate use in a strong magnetic field, since there is a possibility of malfunction.

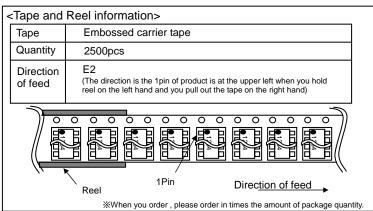


Selection of order type

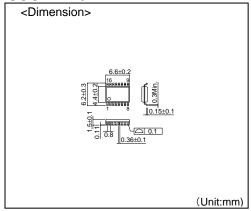


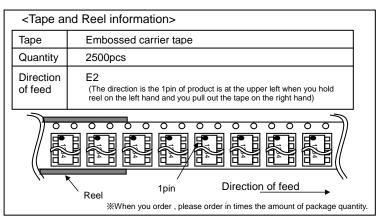
SOP16





SSOP-A16





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