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# AN5860, AN58605

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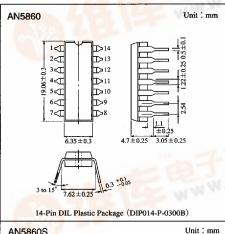
# Analog Switch ICs for RGB Interface

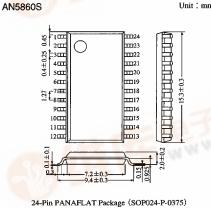
#### Overview

The AN5860 and the AN5860S are the integrated circuits designed for high-speed analog switch circuits for RGB signal processing.

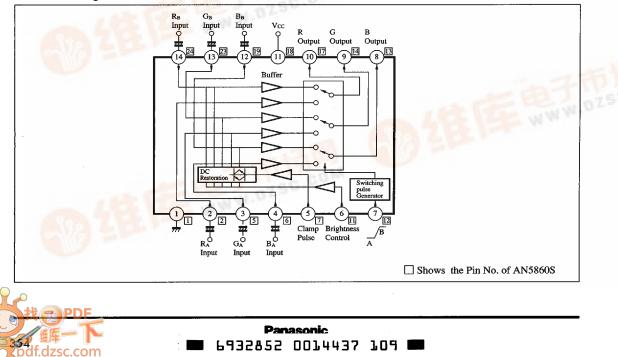
#### Features

- Wide band Characteristics (>20MHz)
- High speed switching characteristics  $(t_{dr\;(typ.)},\,t_{df\;(typ.)}$  ; 35ns)
- Brightness is DC-controlled





### Block Diagram



# AN5860, AN5860S

### Pin Descriptions

Pin No.	Pin name	Pin No.	Pin name
1(1)	GND	8(13)	B output
2(2)	R <sub>A</sub> input	9(14)	G output
3(5)	G <sub>A</sub> input	10(17)	R output
4(6)	B <sub>A</sub> input	11(18)	Vcc
5(7)	Clamp pulse input	12(19)	B <sub>B</sub> input
6(11)	Brightness control	13(23)	G <sub>B</sub> input
7(12)	Switching pulse input	14(24)	R <sub>B</sub> input

## Absolute Maximum Ratings (Ta=25°C)

	Parameter	Sy	mbol	R	ating	Unit
Voltage	Supply voltage	V <sub>cc</sub>		13.8(13.0)		v
	Circuit current	V11-1	(V <sub>18-1</sub> )	0	13.8(13.0)	v
		V <sub>2,3,4,12,13,14-1</sub>	(V <sub>2,5,6,19,23,24-1</sub> )	0	$V_{11-1}(V_{18-1})$	v
		$V_{5-1}$	(V <sub>7-1</sub> )	-1	6(V <sub>18-1</sub> )	v
		$V_{6-1}(V_{11-1})$		3(0)	9	v
		$V_{7-1}(V_{12-1})$		0	6(V <sub>18-1</sub> )	v
Circuit voltage		$I_{8,9,10}(I_{13,14,17})$		-10	2	mA
Power dissipation $(Ta=70$ °C)		P <sub>D</sub>	AN5860	560		
			AN5860S	490		mW
Temperature	Operating ambient temperature	T <sub>opr</sub>		-20 to $+70$		C
	Storage temperature	$\mathbf{T}_{\mathrm{stg}}$	AN5860	-55 to $+150$		Ĉ
			AN5860S	-55 to $+125$		C

() shows the Pin No. of AN5860S

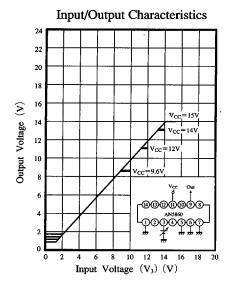
## Electrical Characteristics $(T_a=25^{\circ}C)$

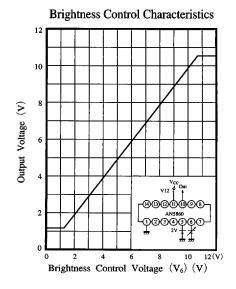
Parameter	Symbol	Condition	min	typ	max	Unit
Operating supply voltage range	$V_{CC(opr.)}$		9.6	12.0	13.8	v
Total circuit current	I <sub>tot</sub>	$V_{CC}$ =12V, V <sub>5</sub> : input pulse 1V <sub>P-P</sub>	19	26.5	34	mA
DC voltage difference between outputs	⊿V <sub>RGB</sub>	$V_{CC} = 12V, V_7 = 1V, 0V$		0	±100	mV
Switching output DC voltage difference	⊿V <sub>A-B</sub>	$V_{CC} = 12V, V_7 = 1V, 0V$		0	±30	mV
Input/Output dynamic range for signals (upper)	D.R <sub>max.</sub>	V <sub>cc</sub> =12V		_	10.5	v
Input/Output dynamic range for signals (lower)	D.R <sub>min.</sub>	V <sub>cc</sub> =12V	1.7			v
Output terminal sink current	Isinc	V <sub>CC</sub> =12V, input voltage 6V			0.8	mA
Voltage amplification for signals	A <sub>v</sub>	$f_{in} = 1 MHz, 1 V_{P-P}$	0.9	1	1.1	times
Frequency characteristics for signals	f <sub>-3dB</sub>	$e_{in} = 1 V_{P-P}$	20	_		MHz
DC level difference of pedestal level for signals	⊿E <sub>to</sub>	Input pulse 1V <sub>P-P</sub> , V <sub>6</sub> : 7V		0	±100	mV
Switching crosstalk	CT <sub>A/B</sub>	$f_{in} = 1 MHz, 1 V_{P-P}$		—	-40	dB
Signal rise time	tr	$f_{in} = 1 MHz, 1 V_{P-P}$		20	40	ns
Signal fall time	t <sub>f</sub>	$f_{in} = 1 MHz, 1 V_{P-P}$		20	40	ns
Signal rise delay time	t <sub>dr</sub>	$f_{in} = 1 MHz, 1 V_{P-P}$		10	30	ns
Signal fall delay time	t <sub>df</sub>	$f_{in} = 1 MHz, 1 V_{P-P}$		10	30	ns
Switching delay time	t <sub>dr(A/B)</sub>	Switching pulse 1V <sub>P-P</sub>		35	60	ns
	t <sub>df(A/B)</sub>	Switching pulse 1V <sub>P-P</sub>		35	60	ns
Switching pulse standard input	V <sub>SWP</sub>	$V_{cc} = 12V$		1		V <sub>O-P</sub>
Clamp pulse standard input	V <sub>CLP</sub>	$V_{cc} = 12V$		2		V <sub>O-P</sub>

## ICs for TV

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