AN5862K, AN5862S

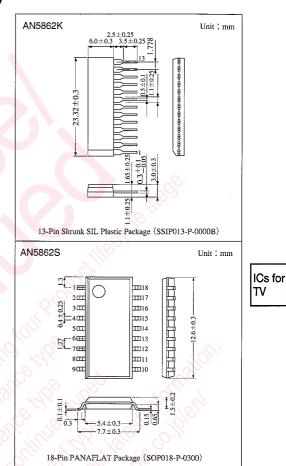
Analog Switch ICs for RGB Interface

Overview

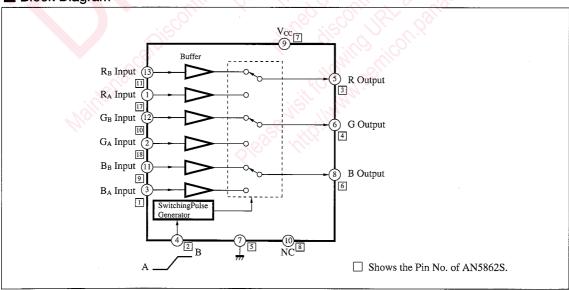
The AN5862K and AN5862S are integrated circuits designed for analog switch of RGB signal processing.

Features

- Wide band characteristics
- High speed switching characteristics $(t_{dr\ (typ.)},\,t_{df\ (typ.)}:$ 35ns)



Block Diagram



■ Pin Descriptions

() shows the Pin No. of AN5862S.

Pin No.	Pin name	Pin No.	Pin name
1(17)	R _A input	8(6)	B output
2(18)	G _A input	9(7)	V _{CC}
3(5)	B _A input	10(8)	NC
4(2)	Switching pulse input	11(9)	B _B input
5(3)	R output	12(10)	G _B input
6(4)	G output	13(11)	R _B input
7(5)	GND		

Note) In case of AN5862S, Pin No. 1, 12, 13, 14, 15, are NC

■ Absolute Maximum Ratings (Ta=25°C)

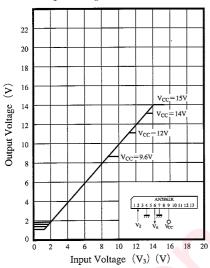
Parameter		Symbol	Rating		Unit	
	Supply voltage	V _{cc}	14.4		≥ V	
Voltage		V ₉₋₇ (V ₇₋₅)	0	14.4	V	
	Circuit voltage	V _{1,2,3,11,12,13-7} (V _{17,18,1,9,10,11-5})	0	$V_{9-7}(V_{7-5})$	V	
		$V_{4-7}(V_{2-5})$	0	6	V	
Circuit current		I _{5,6,8} (I _{3,4,6})	-10	2	mA	
Power dissipation (Ta=70°C) AN5862K AN5862S		$\{P_{D}\}$	660		mW	
			420		m w	
0	perating ambient temperature	Topr	-20 to +70		°C	
	torage AN5862K		-50 to +150		£ 00.	
	emperature AN5862S		-50 to +125			

Note) () is for the AN5862S

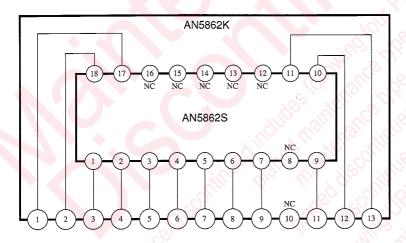
■ Electrical Characteristics $(Ta=25^{\circ}C)$

Parameter	Symbol	Condition	min	typ	max	Unit
Operating supply voltage range	$V_{CC(opr.)}$	10, 10, 11, 13,	9.6	- <u></u> //	14.4	V
Total circuit current	I_{tot}	V _{cc} =12V	21	28	35	mA
Signals input/output dynamic range (Upper)	D.R _{max.}	$V_{CC}=12V$		<u> </u>	10.5	V
Signals input/output dynamic range (Lower)	D.R _{min.}	$V_{\rm cc}=12V$	1.7			V
Output terminal sink enable current	$I_{ m sinc}$	V _{CC} =12V, Input voltage 6V	.0-		0.8	mA
Signals voltage amplification	A_v	$f_{in}=1MHz$, $1V_{P-P}$	0.9	1	1.1	times
Signals frequency characteristics	f_{-3dB}	$e_{in}=1V_{P-P}$	20			MHz
Switching crosstalk	CT _{A/B}	f _{in} =1MHz, 1V _{P-P}			-40	dB
Signal rise time	t _r	$f_{in} = 1 MHz, 1 V_{P-P}$		20	40	ns
Signal fall time	t _f	f _{in} =1MHz, 1V _{P-P}	—	20	40	ns
Signal rise delay time	t _{dr}	$f_{in} = 1MHz, 1V_{P-P}$	—	10	30	ns
Signal fall delay time	t _{df}	$f_{in}=1MHz$, $1V_{P-P}$		10	30	ns
Switching delay time	t _{dr(A/B)}	Switching pulse 1V _{P-P}		40	60	ns
Switching pulse standard input	t _{df(A/B)}	Switching pulse 1V _{P-P}		40	60	ns
Switching pulse standard input	V_{SWP}	$V_{CC}=12V$		1		V _{O-P}





Pinning comparing table of the AN5862K and AN5862S





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