Этикетка изделия

TDA3562A

Decoder for the PAL or NTSC color television standarts

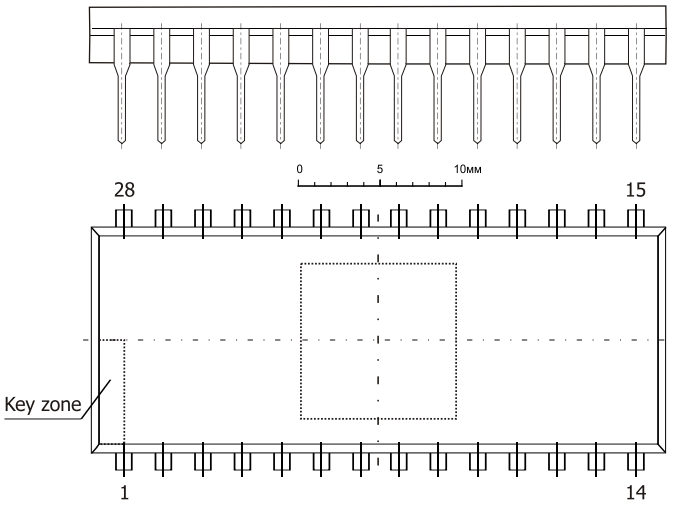
Analogue: KP1021XA4

The TDA3562A is a semiconductor integrated decoder for the PAL or NTSC color television standarts, export color TV receiver SCT-51/61/67, home TV receiver, when used in conjunction with SECAM/PAL transcoder of the TDA3590A, TDA3591 type.

Pinout of TDA3562A in 28-pin plastic or metal-ceramic package:
A) Front view
B) Top view

A)

B)



Pin assignment table			
Pin	Purpose	Pin	Purpose
1	Supply voltage	15	G-channel output
2	Peak-to-peak detector capacitance	16	Additional B-channel insertion
3	Amplitude detector capacitance	17	B-channel output
4	Chrominance signal input	18	Ray current data
5	Saturation control	19	Leakage current data
6	Contrast control	20	B black current data
7	Sync pulse input	21	G black current data
8	Brightness signal input	22	B-Y chrominance signal input
9	Input switching	23	R-Y chrominance signal input
10	Black current data	24	Phase detector load
11	Brightness control	25	Phase detector load
12	Additional R-channel insertion	26	Crystal
13	R-channel output	27	Common
14	Additional G-channel insertion	28	Chrominance amplifier output

THE ELECTRICAL PARAMETERS WHEN DELIVERING (AT TEMPERATURE OF 298±10K)			
Parameter, unit	Symbol	Limits	
		min	max
1. Control voltage of automatic white balance system at the R,G,B outputs, V	U_{RGB}	6,7	8,2
2. Blanking voltage at R,G,B outputs, V	$U_{bl.RGB}$	0,8	1,15
3. Black level voltage at R,G,B outputs, V	$U_{ob\ RGB}$	2,7	4,5
4. R,G,B output peak-to-peak signal, V	$U_{ow\ RGB}$	-	4,5
5. Feedback low voltage, V	U_{DIL}	3,8	6,0
6. Sense signal amplitude, V	U_{DIH}	0,3	0,85
7. Voltage difference of sense pulse signals with respect to black level voltage at R,G,B outputs, V	$U_{DIH\ RGB}$	-0,54	0,54
8. Control response slope of brightness contrast (relative to white level), V/V	$S^{cont}_{O.u.w}$	1,3	3,4
9. Control response slope of brightness contrast (relative to black level), mV/V	$S^{cont}_{O.u.b}$	-140	140
10. Black level voltage at outputs R,G,B with insertion signals on additional inputs, V	$U^{add}_{o.b.\ RGB}$	2,3	4,6
11.Peak-to-peak signal at outputs R,G,B with insertion signals on additional inputs, V	$U^{add}_{ow\ RGB}$	1,7	3,9
12. R-V peak-to-peak signal on output R, V	$U_{O.R-Y}$	2,1*	6,6*
		2,3	6,0
13. Variation of voltage at output R with input signal, mV	$U_{div,b}$	-70	70
14. Output voltage, V	U_O	4,0	-
15. Control voltage at chroma recognizer output, V	$U_{od\ coll}$	4,5	-
		-	2,6
16. Supply current, mA	I_{CC}	80	130
17. Brightness control response slope (relative to black level), V/V	$S^{bright}_{o.u.b}$	0,62	1,8
18. Saturation control response slope at output R, V/V	S_R	1,1	3,6
19. Ratio of demodulated chroma signals (G-Y)/(R-V), V/V	Y_{GR}	0,43	0,68
20. Ratio of demodulated chroma signals (B-Y)/(R-V), V/V	Y_{BR}	1,0	1,7
21. Clamping of output level with input voltage, dB	d_{col}	-3	1
22. Signal swing spread at outputs R,G,B, %	$d_{Uo\ RGB}$	-	10
23. AFC rejection ratio of brightness channel, dB	A_{lum}	-	3
24. Voltage gain of chroma channel, dB	$A_{u\ col}$	34	-
25. Brightness channel nonlinear distortion, %	K_{dist}	-	10
* Note: at U_{CC}=10,8V			

Absolute maximum ratings			
Parameter, unit	Symbol	Limits absolute maximum ratings	
		min	max
1. Supply voltage, V	U_{CC}	10,8	13,2
2. Voltage at pins 4,7,8,12,14,16,22,23, V	U_1	-	U_{CC}-0,6
3. Voltage at pin 9, V	U_2	-	3
4. Load resistance og chroma channel,	R_{Lcol}	1	-
5. Load resistance on channel R,G,B,	$R_{L\ RGB}$	1	-
6. Maximum power consumption, W	$P_{CC\ max}$	-	1,7

Operating temperature range -10...+70
Optimal storage temperature +25±10