

STK4101V SERIES

thick film hybrid IC

CIRCUIT DRAWING
No.6023

2-CHANNEL 6W MIN TO 50W MIN AF
POWER AMP (DUAL-SUPPLY)



4040

Function

- All-in-one 2-channel AF power amp.

Features

- AF Output Power STK4101V: 6W min. STK4151V: 30W min.
 STK4111V: 10W min. STK4161V: 35W min.
 STK4121V: 15W min. STK4171V: 40W min.
 STK4131V: 20W min. STK4181V: 45W min.
 STK4141V: 25W min. STK4191V: 50W min.
- Small package as compared with the STK450 series
- Built-in muting circuit to cut off various kinds of pop noise
- Greatly reduced heat sink due to case temperature 125°C guaranteed
- Distortion 0.08% due to current mirror circuit
- Pin-compatible with the STK4101II series
- Excellent cost performance

STK4301 SERIES

thick film hybrid IC

CIRCUIT DRAWING
No.6024

2-CHANNEL 22W MIN TO 28W MIN AF
POWER AMP



4040

Features

- AF Output Power STK4301: 22W min.
 STK4311: 28W min.
- Wide supply voltage range
- Operating voltage range $V_{CC} = 8$ to 31V: Possible to use battery (13.2V), AC line (31.0V)
- High V_{CCmax} facilitates transformer design ($V_{CCmax} = 50V$).
- Free from failure caused by load shorted because of built-in heat sink
- The use of muting transistors makes it possible to cut off pop noise at the time of power ON/OFF and function select.
- Usable for 2 ohm load (at $V_{CC} = 26.4V$ or less)

STK4302 SERIES

thick film hybrid IC

CIRCUIT DRAWING
No.6025

2-CHANNEL 5W MIN TO 15W MIN AF
POWER AMP.



4032



4033

Features

- AF Output Power STK4332: 5Wmin. STK4352: 7Wmin. STK4362: 10Wmin.
 STK4372: 12Wmin. STK4392: 15Wmin.
- Small and slim package.
- Pin compatible with STK430 series heretofore in use.
- Capable of guaranteeing case temperature 125°C, thereby reducing heat sink.
- Excellent cost performance.
- Package Number: 4032 (STK4332, 4352)
 4033 (STK4362, 4372, 4392)

●STK4101V SERIES

Type Number	Page	Case			Circuit Drawing No.	Circuit Functions & Applications ★Dual-Supply Operation	Recommended V_{CC}, R_L [V], [Ω]	Main Characteristics/ $T_a=25^{\circ}\text{C}$. recommended operating conditions			
		Package	Pins	Package No.				I_{CCO} [mAmax]	P_o / THD [Wmin/%]	THD / P_o [%max/W]	f response [Hz]
※STK4101V	261	SEP	18	4040	6023	★ 6Wmin AF Power Amp	±14.0.8	100	6×2/0.08	0.08/1.0	20 to 50k
※STK4111V	261	SEP	18	4040	6023	★ 10Wmin AF Power Amp	±18.0.8	100	10×2/0.08	0.08/1.0	20 to 50k
※STK4121V	261	SEP	18	4040	6023	★ 15Wmin AF Power Amp	±21.5.8	100	15×2/0.08	0.08/1.0	20 to 50k
※STK4131V	261	SEP	18	4040	6023	★ 20Wmin AF Power Amp	±24.5.8	100	20×2/0.08	0.08/1.0	20 to 50k
STK4141V	261	SEP	18	4040	6023	★ 25Wmin AF Power Amp	±27.0.8	100	25×2/0.08	0.08/1.0	20 to 50k
STK4151V	261	SEP	18	4040	6023	★ 30Wmin AF Power Amp	±28.0.8	100	30×2/0.08	0.08/1.0	20 to 50k
※STK4161V	261	SEP	18	4040	6023	★ 35Wmin AF Power Amp	±30.5.8	100	35×2/0.08	0.08/1.0	20 to 50k
※STK4171V	261	SEP	18	4040	6023	★ 40Wmin AF Power Amp	±32.5.8	100	40×2/0.08	0.08/1.0	20 to 50k
※STK4181V	261	SEP	18	4040	6023	★ 45Wmin AF Power Amp	±34.0.8	100	45×2/0.08	0.08/1.0	20 to 50k
STK4191V	261	SEP	18	4040	6023	★ 50Wmin AF Power Amp	±35.5.8	100	50×2/0.08	0.08/1.0	20 to 50k

●STK4301 SERIES

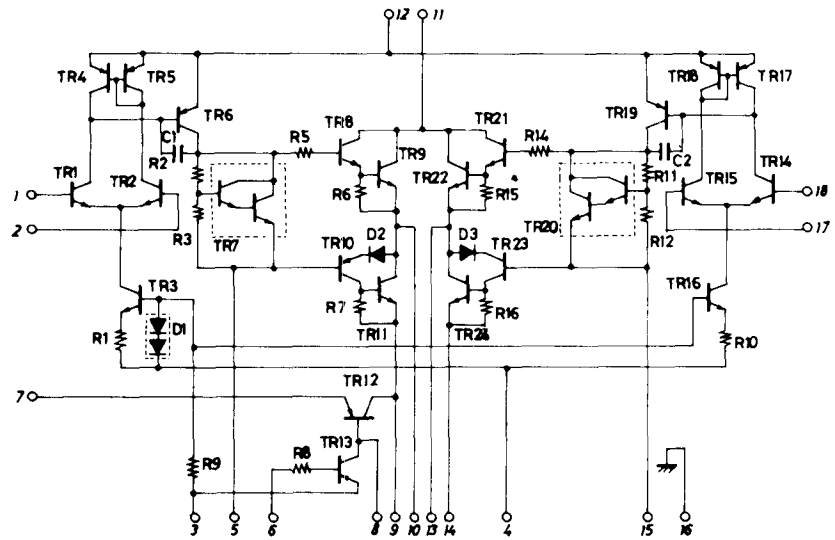
Type Number	Page	Case			Circuit Drawing No.	Circuit Functions & Applications	Recommended V_{CC}, R_L [V], [Ω]	Main Characteristics/ $T_a=25^{\circ}\text{C}$. recommended operating conditions			
		Package	Pins	Package No.				I_{CCO} [mAmax]	P_o / THD [Wmin/%]	THD / P_o [%max/W]	f response [Hz]
STK4301	261	SEP	18	4040	6024	4.8 to 22Wmin AF power Amp	13.2.4 31.0.4	150	4.8×2/10.0 22×2/10.0	1.0/1.0	40 to 50k
STK4311	261	SEP	18	4040	6024	4.8 to 22Wmin AF power Amp	13.2.4 35.0.4	175	4.8×2/10.0 28×2/10.0	1.0/1.0	40 to 50k

●STK4302 SERIES

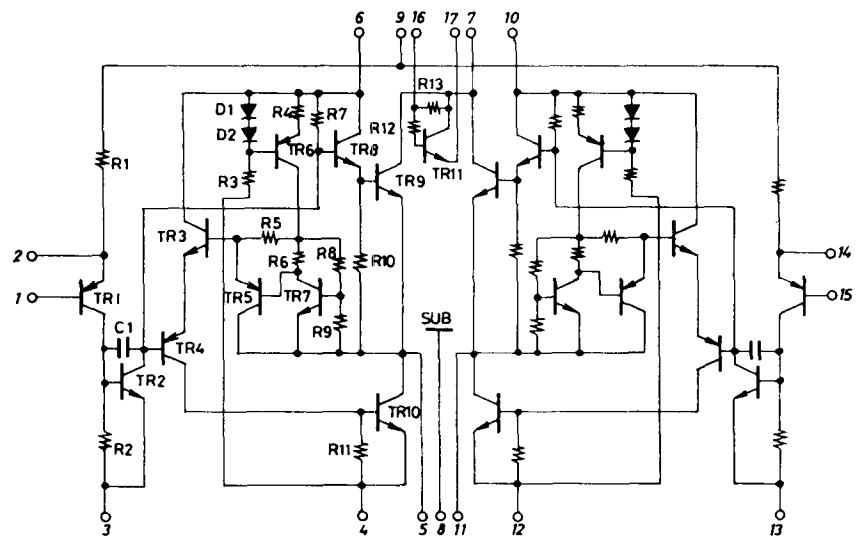
Type Number	Page	Case			Circuit Drawing No.	Circuit Functions & Applications	Recommended V_{CC}, R_L [V], [Ω]	Main Characteristics/ $T_a=25^{\circ}\text{C}$. recommended operating conditions			
		Package	Pins	Package No.				I_{CCO} [mAmax]	P_o / THD [Wmin/%]	THD / P_o [%max/W]	f response [Hz]
STK4332	261	SEP	15	4032	6025	5Wmin AF Power Amp	23.0.8	120	5×2/1.0	0.5/0.1	50 to 50k
STK4352	261	SEP	15	4032	6025	7Wmin AF Power Amp	27.0.8	120	7×2/1.0	0.5/0.1	40 to 50k
STK4362	261	SEP	15	4033	6025	10Wmin AF Power Amp	33.0.8	120	10×2/1.0	0.3/0.1	20 to 100k

Continued on next page.

6023:STK4101V SERIES
EQUIVALENT CIRCUIT



6024:STK4301 SERIES
EQUIVALENT CIRCUIT



6025:STK4302 SERIES
APPLICATION CIRCUIT EXAMPLE : 5W min to 15W min 2-channel AF Power Amp.

