## DUTPUT STAGE OF AF POWER AMP.

## Features

General output stage of power amplifier has a difficult and complex problem about heat sink designing and its setting. Sanyo's D.P.P. intends to decrease electronic parts and rationalize a manufacturing process by designing IC of only output stage of power amplifier.

- IMST system.
- Output stage for AF high power amplifier.
- Dual power supply.

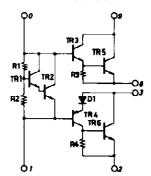
- Darlington type pure / quasi-complementary circuit.
- These same pin assignment and pin interval lead to standardize a printed board.
- Metal substrate use IMST® makes good thermal stability.
- Able to design freely previous section of power amplifier. This leads tone control designing.

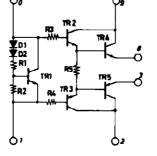
	Maximum Ratings at Ta=25°C							Operation Characteristics at Ta=25°C					
Type Number		<b>3</b>	1 30 C			A STATE OF THE STA		The state of the s	See	de de la constante de la const	TO WE WAS TO SEE THE S	and desired	S S S S S S S S S S S S S S S S S S S
Pure-Com- plementary	Quasi-Com- plementary		#370				(P.O.	<b>₽</b> Cyro	ch be St	Ogr. N.		જ હ	\(\frac{1}{2}\)
Circuit	Circuit		V	°C	°C	°C/W	A	sec		W	%	mA	<u> </u>
1-Channel Da	rlington Power	Pack (	Without	emitter re	sistance)		<b></b>	,				•	_
	STK 0025	4002	±35	150	-30 to +105	2.6	3	2	±24.4	23 min.	0.05 max.	40 typ, 80 max.	
STK 0030	\$TK 0029	4002 4002	±37 ±40	150 150	-30 to +105 -30 to +105	2.4	5	2	±25.0 ±28.5	25 min. 30 min.	0.1 max. 0.1 max.	40 typ, 80 max. 40 typ, 80 max.	
31 K 0030	STK 0039	4004	±45	150	-30 to +105	2.0	5	2 2 2	±31	35 min.	0.1 max.	40 typ, 80 max.	İ
STK 0040		4002	±48	150	-30 to +105	2.0	5	2	±33	40 min.	0.1 max.	40 typ, 80 max.	
OTH DOED	STK 0049	4004	±50 ±53	150 150	-30 to +105 -30 to +105	1.8. 1.8	5	2	±35 ±36	45 min. 50 min.	0.1 max. 0.1 max.	40 typ, 80 max. 40 typ, 80 max.	
STK 0050	STK 0059	4004	±53.5	150	-30 to +105	1.6	7	2	±38	55 min.	0.1 max. 0.1 max.	40 typ, 80 max.	
STK 0060	011X 0000	4006	±55	150	-30 to +105	1.4	7	l _	±40	60 min.	0.1 max.	40 typ, 80 max.	
STK 0070		4006	±55	150	-30 to +105	1.4	7	-	±43	70 min.	0.1 max.	40 typ, 80 max.	
STK 0080	'erk orec	4006	±65	150	-30 to +105	1.3	10	-	±46	80 min.	0.1 max.	40 typ, 80 max.	
	STK 0105	4007	±75	150	-30 to +105	1.0	10	<del>  -</del>	±50	100 min.	0.1 max.	40 typ, 80 max.	4
STK 004011		4002	±48	150	-30 to +105	1.8	5	1	±36	40 min.	0.01 max.	40 typ, 70 max.	
STK 005011		4004 4006	±53 ±55	150 150	-30 to +105 -30 to +105	1.6 1.3	8	1 1	±39 ±41	50 min. 60 min.	0.01 max. 0.01 max.	40 typ, 70 max. 40 typ, 70 max.	
STK 007011		4006	±60	150	-30 to +105	1.3	10	l i	±45	70 min.	0.01 max.	40 typ, 70 max.	
STK 008011		4006	±65	150	-30 to +105	1.2	12	1	±47	80 min.	0.01 max.	40 typ, 70 max.	
1-Channel Da	rlington Power	Pack (	With emi	tter resist	ance)					•			] gi
STK 1030		4004	±40	150	-30 to +105	2.4	T 5	7	±28.5	30 min.	0.02 max.	40 typ, 80 max.	18
OTT 1000	STK 1035	4004	±40	150	-30 to +105	2.4	5	2 2 2 2 2	±28.5	30 min.	0.02 max.	40 typ, 80 max.	=
	STK 1039	4004	±46.1	150	-30 to +105	1.85	6	2	±30	35 min.	0.02 max.	40 typ, 80 max.	ë
STK 1040	OTV 1045	4004	±48	150	-30 to +105	1.8	7	2	±33	40 min.	0.02 max.	40 typ, 80 max.	e
	STK 1045 STK 1049	4004 4004	±48 ±50	150 150	-30 to +105 -30 to +105	1.8 1.8	7	2	±33 ±34	40 min. 45 min.	0.02 max. 0.02 max.	40 typ, 80 max. 40 typ, 80 max.	<del>F</del>
STK 1050	011045	4004	±53	150	-30 to +105	1.8	7	2	±36	50 min.	0.02 max.	40 typ, 80 max.	5
	STK 1059	4004	±53	150	-30 to +105	1.6	7	-	±38	55 min.	0.02 max.	40 typ, 80 max.	Shown on the next page
STK 1060		4004	±56	150	-30 to +105	1.6	10	<u> </u>	±40	60 min.	0.02 max.	40 typ, 80 max.	վ
STK 1050II		4020	±55	150	-30 to +105	1.6	6	1	±38	50 min.	0.01 max.	40 typ, 70 max.	ျဖ
STK 106011 STK 107011		4020 4020	±56 ±63	150 150	-30 to +105 -30 to +105	1.3	10	1	±40 ±43	60 min. 70 min.	0.01 max. 0.01 max.	40 typ, 70 max. 40 typ, 70 max.	
STK 108011		4020	±65	150	-30 to +105	1.2	10	Ιi	±45	80 min.	0.01 max	40 typ, 70 max.	
	rlington Power				<del></del>		L	<u> </u>	1	1	L		1
2-0110111101	STK 2025	4015	±40	150	I -30 to +105	2.6	3	2	±24	20x2 min.	0.02 max.	40 aug 90 may	1
	STK 2029	4015	±43	150	-30 to +105	2.2	4	2	±25.5	25x2 min.	0.02 max.	40 typ, 80 max. 40 typ, 80 max.	
2-Channel Da	rlington Power				<del></del>	1,5:5	<u>'</u>		1			10 199700	1
2 011011101 00	STK 2135	4015	±48	150	-30 to +105	2.1	4	2	±28.5	30x2 min.	0.02 max.	40 4 80	1
	STK 2139	4015	±48 ±50	150	-30 to +105	1.85	5	2	±28.5	35x2 min.	0.02 max. 0.02 max.	40 typ, 80 max. 40 typ, 80 max.	
	STK 2145	4015	±54	150	-30 to +105	1.8	7	2	±32	40x2 min.	0.02 max.	40 typ, 80 max.	
STK 2230		4015	±48	150	-30 to +105	2.1	4	2	±30	30x2 min.	0.01 max.	35 typ, 80 max.	
STK 2240 STK 2250		4015 4015	±54 ±59	150 150	-30 to +105 -30 to +105	1.8 1.8	5	2 2	±33.5	40x2 min.	0.01 max.	35 typ, 80 max.	
					-30 10 +105	1.0	0		±37	50x2 min.	0.01 max.	35 typ, 80 max.	-
	Switching Dar		r —		T	,	T _	T -	<del></del> _		I	T	4
STK 8250		4006	±56	150	-30 to +105	1.8	5	2	±38	50 min.	0.01 max.	80 max.	1
STK 8260 STK 8270		4006 4006	±59 ±60	150 150	-30 to +105 -30 to +105	1.4 1.4	7 7	2 2	±42 ±44	60 min. 70 min.	0.01 max. 0.01 max.	80 max. 80 max.	1
STK 8280		4006	±65	150	-30 to +105	1.4	/	2	±47	80 min.	0.01 max.	80 max.	l
STK 8250II		4020	±55	150	-30 to +105	1.6	6	1	±38	50 min.	0.005 max.	70 max.	1
STK 826011		4020	±56	150	-30 to +105	1.3	8	∣ i	±40	60 min.	0.005 max.	40 typ, 70 max.	1
STK 827011		4020	±63	150	-30 to +105	1.3	10	1	±44	70 min.	0.005 max.	40 typ, 70 max.	1
STK 8280II	1	4020	±65	150	-30 to +105	1.2	12	1	±45	80 min.	0.01 max.	70 max.	1

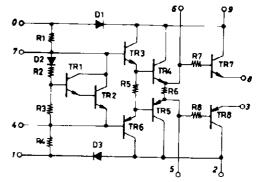




## **EQUIVALENT CIRCUIT**



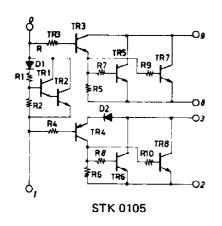


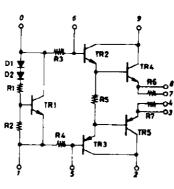


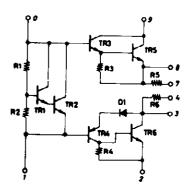
STK 0025, 0029, 0039, 0049, 0059

STK 0030, 0040, 0050, 0060, 0070 0080,

STK 0040II, 0050II, 0060II, 0070II, 0080II

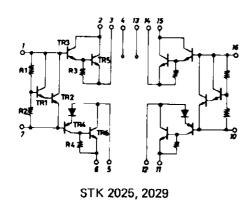


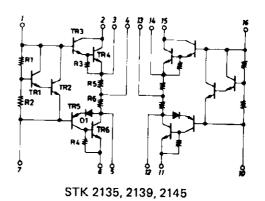




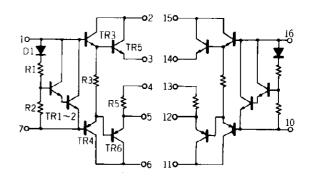
STK 1030, 1040, 1050, 1060

STK 1035, 1039, 1045, 1049, 1059





120 TR3 R4 TR7 02 R7 R8 TR1 110 TR1 120 TR1 12



STK 1050II, 1060II, 1070II, 1080II

STK 2230, 2240, 2250

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