

D.P.P. (DARLINGTON POWER PACK) thick film hybrid IC

CIRCUIT DRAWING
No.6001-6003

OUTPUT 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.

Type Number	Maximum Ratings at Ta=25°C							Operation Characteristics at Ta=25°C				
	Case Outline	Maximum Supply Voltage V _{CCmax.}	Junction Temperature T _J	Storage Temperature T _{stg}	Thermal Resistance, θ	Collector Current, I _{Cmax.}	Allowable Lead Shorting Time, t _s	Supply Voltage at Rated Power at Output P _L 1-80	Output Power, P _o (f=20 to 20kHz)	Total Harmonic Distortion, THD(f=20 to 20kHz)	Quiescent Current, I _{cco}	
Pure-Complementary Circuit	Quasi-Complementary Circuit	V	°C	°C	°C/W	A	sec	V	W	%	mA	
1-Channel Darlington Power Pack (Without emitter resistance)												
STK0080	4006	+65	150	-30 to +105	1.3	10	-	+46	80 min.	0.1 max.	40 typ, 80 max.	
STK0100	4006	+75	150	-30 to +105	1.1	12	-	+50	100 min.	0.1 max.	40 typ, 80 max.	
1-Channel Darlington Power Pack (With emitter resistance)												
STK1030	4004	+40	150	-30 to +105	2.4	5	2	+28.5	30 min.	0.02 max.	40 typ, 80 max.	
STK1040	4004	+48	150	-30 to +105	1.8	7	2	+33	40 min.	0.02 max.	40 typ, 80 max.	
STK1050	4004	+53	150	-30 to +105	1.8	7	2	+36	50 min.	0.02 max.	40 typ, 80 max.	
STK1060	4004	+56	150	-30 to +105	1.6	10	-	+40	60 min.	0.02 max.	40 typ, 80 max.	
STK1070	4006	+60	150	-30 to +125	1.3	10	-	+43	70 min.	0.02 max.	40 typ, 80 max.	
2-Channel Darlington Power Pack (With emitter resistance)												
STK2230	4015	+48	150	-30 to +105	2.1	4	2	+30	30x2 min.	0.01 max.	35 typ, 80 max.	
STK2240	4015	+54	150	-30 to +105	1.8	5	2	+33.5	40x2 min.	0.01 max.	35 typ, 80 max.	
STK2250	4015	+59	150	-30 to +105	1.8	5	2	+37	50x2 min.	0.01 max.	35 typ, 80 max.	

STK075 SERIES

thick film hybrid IC

CIRCUIT DRAWING
No.6004

20 TO 35W MIN AF POWER AMP.



Features

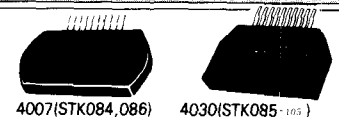
- ©IMST, 1Channel by 2 Power Supplies.
- AF output power STK 077:20W min., STK 078: 24W min., STK 080: 30W min., STK 082: 35W min.
- Differential amp. constant current driving.
- Capable of tone controlling.
- STK 078-105 and STK 082-105 are for the use of T_C=105°C.

STK084, 085-105 086

thick film hybrid IC

CIRCUIT DRAWING
No.6005

50 TO 70W MIN AF POWER AMP.



Features

- ©IMST, 1 Channel by 2 Power Supply.
- AF Output Power STK 084: 50 Wmin, STK 085-105: 60 Wmin, STK 086: 70 Wmin.
- Capable of setting protector for load shorting and tone controller.