

No.965



STK1050 I

Thick Film Hybrid Integrated Circuit 50W MIN AF POWER AMP. OUTPUT STAGE (D.P.P.) WITH BUILT-IN EMITTER RESISTANCE

Features

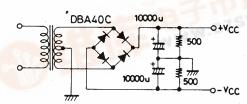
- 1. Built-in emitter resistance
- 2. Allowable power rating of resistor is 5W min. which is capable of meeting the requirements for any load
- 3. Allowable peak current is 15A min. which is capable of covering any peak current at abnormality mode such as load short
- 4. Meets the requirements for various safety standards in the world
- 5. Easy to make PCB design because of built-in emitter resistance
- 6. Capable of forming quasi class A bias circuit by connecting peripheral circuit externally

Maximum Ratings at Ta=25°C Maximum Supply Voltage Thermal Resistance Collector Current Junction Temperature Storage Temperature Available Time for Load Shorted VCC ^{max} UCC VCC ^{max}	Ideal heat radiation VCC==38V*,f=50Hz, RL=80hm,Po=50W	±55 1.6 6 150 +105	unit V OC/W A OC OC Sec
Recommended Operating Conditions a Recommended Supply voltage V_{CC} Load Resistance R_L	it Ta=25 ^O C	±38 8	unit V ohm

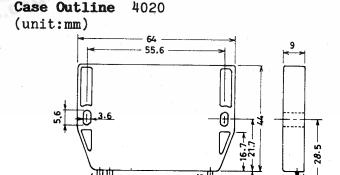
Operating Characteristics at Ta=25°C, VCC=±38V, RL=80hm, Rg=6000hm, VG=36.7dB, at specified test circuit(based on Sample Applica-

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Quiescent Current Output Power	Icco Po	tion Circuit) $V_{CC}=\pm 43V$ THD=0.01%,f=20Hz to 20kHz	min 20 50	typ 40	max 70	unit mA W
Total Harmonic Dis-		Po=50W,f=20Hz to 20kHz	0.	.005	0.01	%
tortion		Po=1W,f=20Hz to 20kHz			0.01	%
Power Bandwidth Emitter Resistance		Po=25W,f=50kHz		0.05		%
** France	$R_{E_{-}}$	7. 4.2	0.18	0.22	0.30	ohm

*: For measuring available time for load shorted, use the specified transformer power supply shown below.

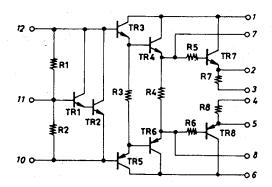


Specified Transformer Power Supply (Equivalent to Tango MG-200)

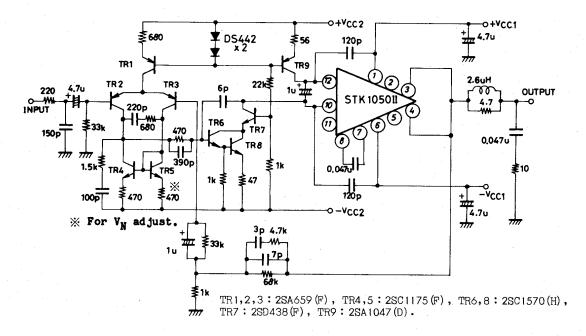




Equivalent Circuit



Sample Application Circuit: 50W min AF Power Amp.



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