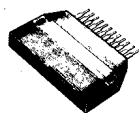




No.966



STK1070 II

70W 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 $T_a=25^{\circ}\text{C}$

			unit
Maximum Supply Voltage	$V_{CC\text{max}}$	± 63	V
Thermal Resistance	θ_{j-c} Ideal heat radiation	1.3	$^{\circ}\text{C/W}$
Collector Current	I_C	10	A
Junction Temperature	T_j	150	$^{\circ}\text{C}$
Storage Temperature	T_{stg}	-30 to +105	$^{\circ}\text{C}$
Available Time for Load Shorted	t_s $V_{CC}=\pm 43\text{V}^*, f=50\text{Hz}, R_L=8\text{ohm}, P_o=70\text{W}$	1	sec

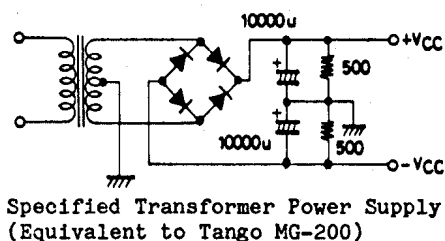
Recommended Operating Conditions at $T_a=25^{\circ}\text{C}$

			unit
Recommended Supply voltage	V_{CC}	± 43	V
Load Resistance	R_L	8	ohm

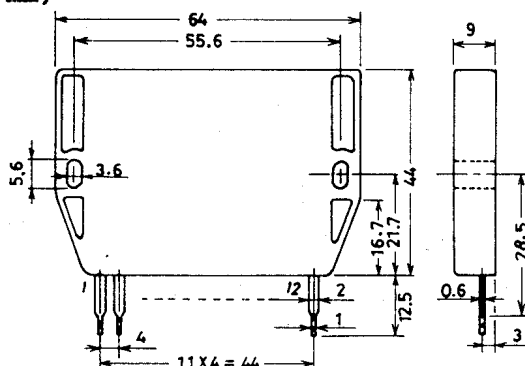
Operating Characteristics at $T_a=25^{\circ}\text{C}, V_{CC}=\pm 43\text{V}, R_L=8\text{ohm}, R_g=600\text{ohm}, V_G=36.7\text{dB}$, at specified test circuit (based on Sample Application Circuit)

			min	typ	max	unit
Quiescent Current	I_{cco} $V_{CC}=\pm 50\text{V}$		20	40	70	mA
Output Power	P_o THD=0.01%, $f=20\text{Hz}$ to 20kHz		70			W
Total Harmonic Distortion	THD(1) $P_o=70\text{W}, f=20\text{Hz}$ to 20kHz		0.005	0.01		%
	THD(2) $P_o=1\text{W}, f=20\text{Hz}$ to 20kHz			0.01		%
Power Bandwidth	PBW $P_o=35\text{W}, f=50\text{kHz}$		0.05			%
Emitter Resistance	R_E		0.18	0.22	0.30	ohm

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

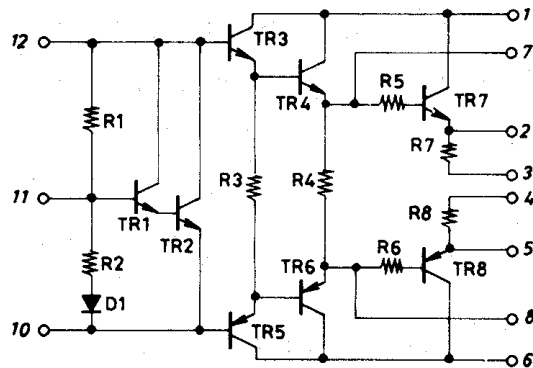


Case Outline 4020 (unit:mm)

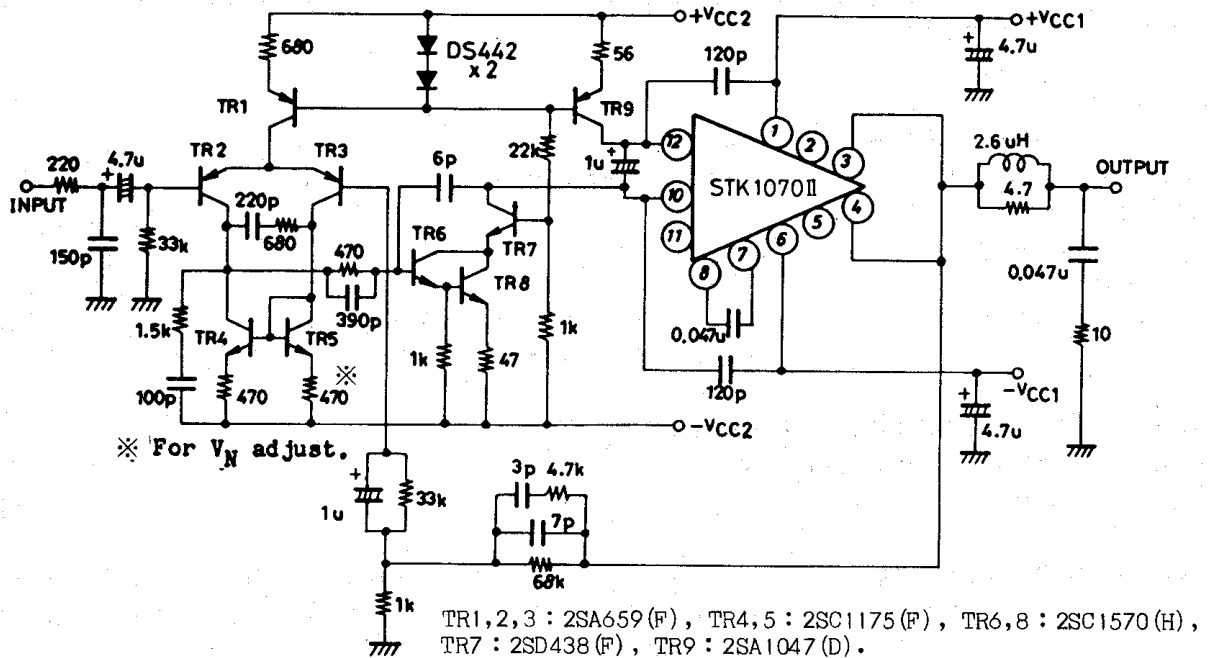


These specifications are subject to change without notice.

Equivalent Circuit



Sample Application Circuit : 70W min AF Power Amp.



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