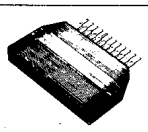
No.988

STK8250 II



Thick Film Hybrid Integrated Circuit

50W min AF Power Amp. Output Stage (Dual Supplies)
With Built-in Quasi Class A Bias Circuit

Features

1. Switching distortion peculiar to class B amp. is zero.
2. Since power stage, bias controller, and temperature compensator are incorporated on the IMST substrate having good thermal conduction, no complicated temperature compensation using thermistor, etc. is required, thereby enabling good thermal stability.
3. By setting bias current externally, optimum conditions can be set.
4. 3-stage Dralington power pack.

Maximum Ratings at Ta=25°C

				unit
Maximum Supply Voltage	V_{CC}max		±55	V
Thermal Resistance	θj-C	Ideal heat dissipation	1.6	°C/W
Collector Current	I_C		6	A
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-30 to +105	°C
Available Time for Load Shorted	ts	V_{CC}=±38V*, f=50Hz, Po=50W, R_L=8ohm	1	sec

Recommended Operating Conditions at Ta=25°C

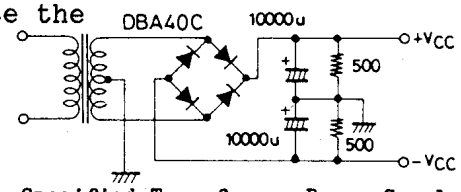
		unit
Recommended Supply Voltage	±38	V
Load Resistance	8	ohm

Operating Characteristics at Ta=25°C, V_{CC}=±38V, R_L=8ohm, Rg=600ohm, VG=36.7dB, at specified test circuit (based on Sample Application Circuit)

			min	typ	max	unit
Quiescent Current	Icco	V_{CC}=±43V**			70	mA
Output Power	Po	THD=0.005%, f=20Hz to 20kHz	50			W
Total Harmonic Distortion	THD(1)	Po=50W, f=20Hz to 20kHz		0.004	0.005	%
	THD(2)	Po=1W, f=20Hz to 20kHz			0.01	%
Emitter Resistance	R_E		0.18	0.22	0.30	ohm

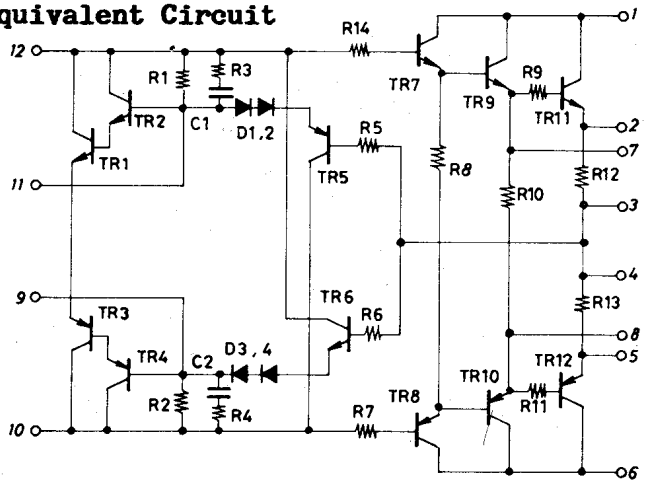
*:For measuring available time for load shorted, use the specified transformer power supply shown right.

**:Maximize semifixed resistor (VR1).

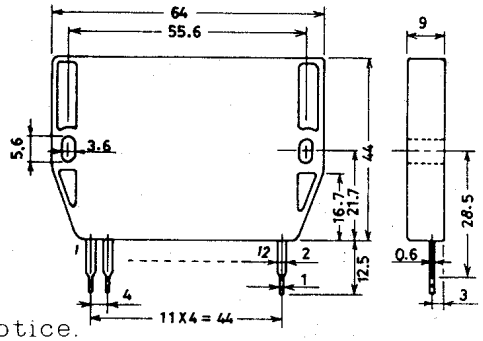


Specified Transformer Power Supply
(Equivalent to Tango MG-200)

Equivalent Circuit



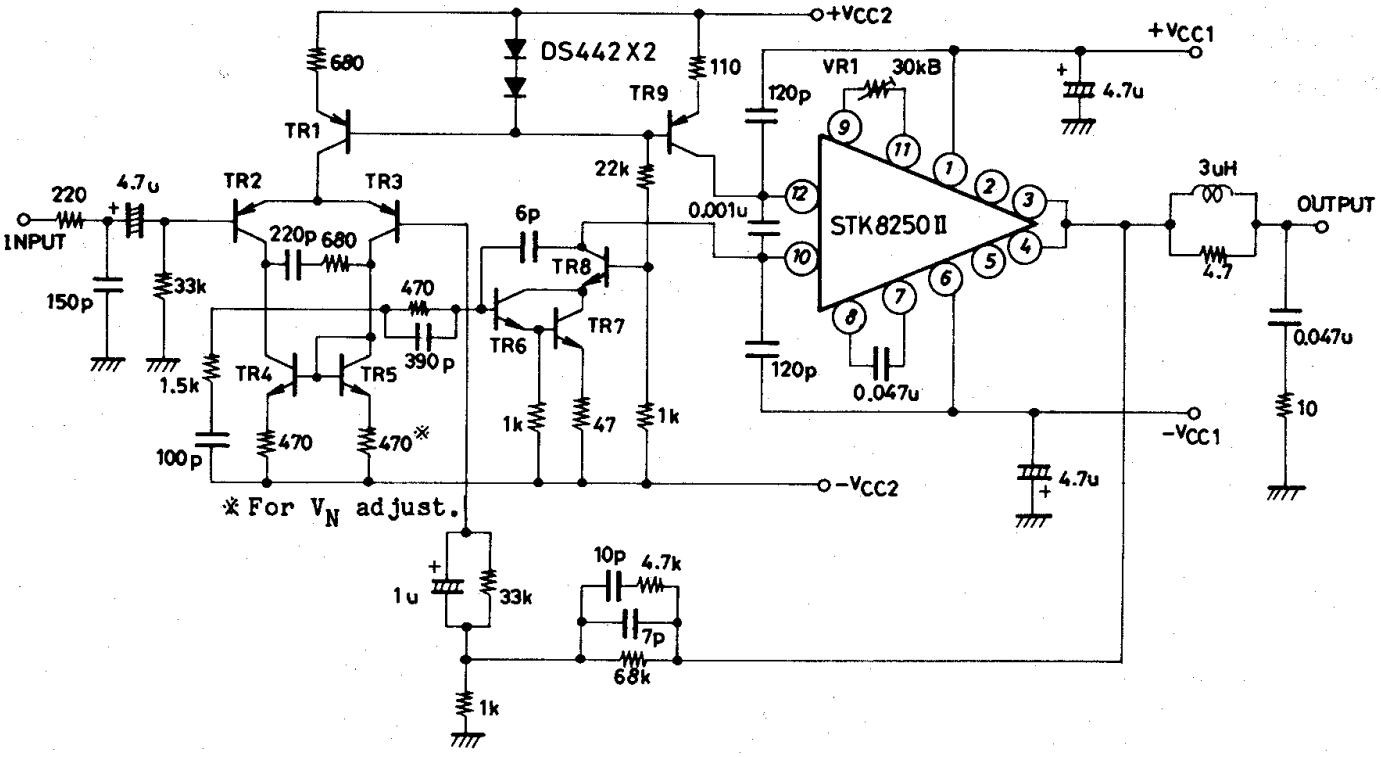
Case Outline 4020
(unit:mm)



These specifications are subject to change without notice.

TOKYO SANYO ELECTRIC CO., LTD. SEMICONDUCTOR DIVISION
15-13, 6-CHOME, SOTOKANDA, CHIYODA-KU, TOKYO 101, JAPAN

Sample Application Circuit : 50W min AF Power Amp.



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