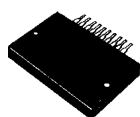




No.964



STK8280

Thick Film Hybrid Integrated Circuit
80W 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.

Maximum Ratings at $T_a=25^\circ\text{C}$

			unit
Maximum Supply Voltage	$V_{CC\max}$	± 65	V
Thermal Resistance	θ_{j-C}	Ideal heat dissipation	1.4 $^\circ\text{C/W}$
Collector Current	I_C		7 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	$V_{CC}=\pm 47\text{V}^*, f=50\text{Hz}, P_o=80\text{W}, R_L=8\text{ohm}$	2 sec

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

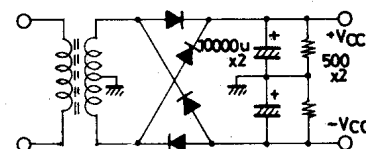
		unit
Recommended Supply Voltage	± 47	V
Load Resistance	8	ohm

Operating Characteristics at $T_a=25^\circ\text{C}, V_{CC}=\pm 47\text{V}, R_L=8\text{ohm}, R_g=600\text{ohm}, V_G=26.5\text{dB}$, at specified test circuit (based on Sample Application Circuit)

		min	typ	max	unit
Quiescent Current	I_{cco}	$V_{CC}=\pm 55\text{V}^{**}$		80	mA
Output Power	P_o	THD=0.01%, $f=20\text{Hz}$ to 20kHz	80		W
Total Harmonic Distortion	THD	$P_o=1.0$ to $80\text{W}, f=20\text{Hz}$ to 20kHz		0.01	%

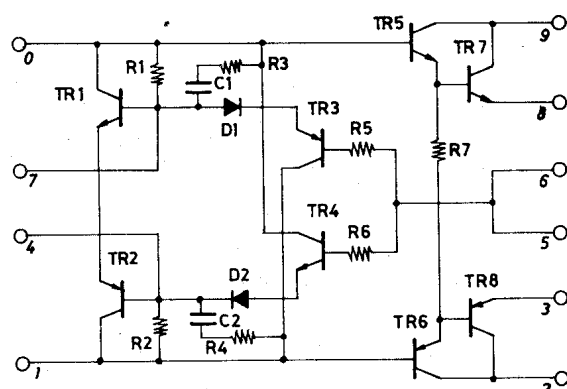
*:For measuring available time for load shorted, use the specified transformer power supply shown right.

**:Maximize VR1(30kB) of Application Circuit.

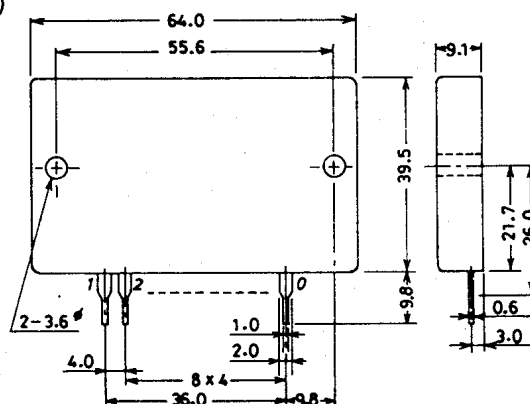


Specified Transformer Power Supply
(Equivalent to Tango MG-200)

Equivalent circuit

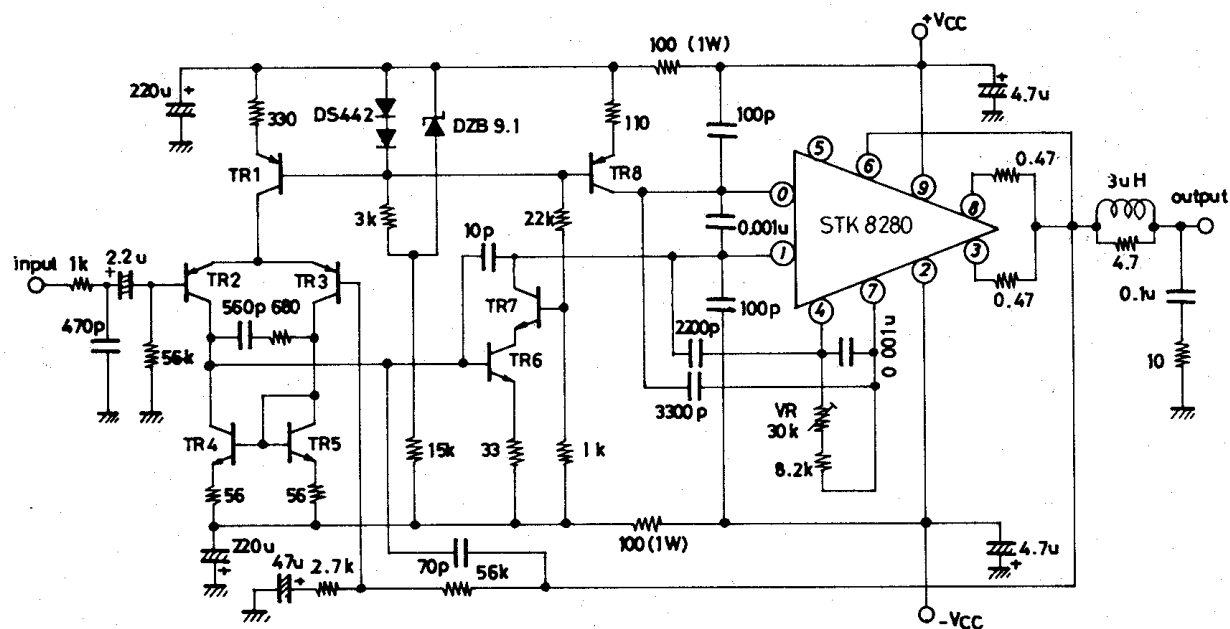


Case Outline 4006 (unit:mm)



These specifications are subject to change without notice.

Sample Application Circuit : 80W min AF Power Amp.



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