



No. 1153

STKO100II



Thick Film Hybrid Integrated Circuit 100W MIN AF POWER AMP. OUTPUT STAGE (DPP)

Features

- Dual supplies, 1 channel
- 3-stage Darlington configuration (Symmetrical complementary circuit)
- Metal substrate makes good thermal stability because of built-in temperature compensator.
- 100W min AF power amp. output stage (DPP) for very low distortion
- Pins arranged in one direction enables standardization of external printed circuit board.

Maximum Ratings/T_a = 25°C

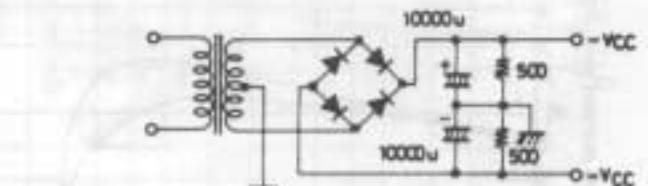
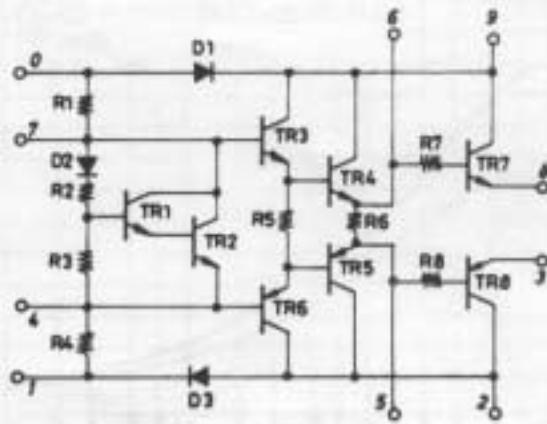
	V _{CC} max	unit
Maximum supply voltage	±75	V
Thermal resistance	θ _{j-c}	°C/W
Collector current	I _C	A
Junction temperature	T _j	°C
Storage temperature	T _{stg}	°C

Recommended Operating Conditions/T_a = 25°C

	V _{CC}	unit
Recommended supply voltage	±52	V
Load resistance	R _L	Ω

**Operating Characteristics/T_a = 25°C, V_{CC} = ±52V, R_L = 8Ω, R_g = 600Ω, VG = 36.7dB, at specified test circuit
(based on Sample Application Circuit)**

			min	typ	max	unit
Quiescent current	I _{CC0}	V _{CC} = ±60V	20	40	70	mA
Output power	P _O	THD = 0.01%, f = 20Hz ~ 20kHz	100			W
Total harmonic distortion	THD(1)	P _O = 100W, f = 20Hz ~ 20kHz		0.005	0.01	%
	THD(2)	P _O = 1W, f = 20Hz ~ 20kHz			0.01	%
Power bandwidth	PBW	P _O = 50W, f = 50kHz		0.05		%

Equivalent Circuit

Specified Transformer Power Supply
(Equivalent to Tango MG-200)
Case Outline 4007
(unit: mm)

