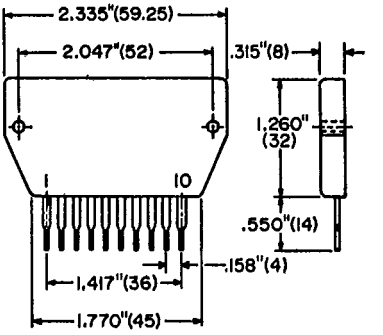
ECG® Semiconductors

ECG1320

25 W AF Power Amplifier

Features

- Thick film hybrid module
- Darlington power pack.
- Dual power supply
- Output stage for AF high power amp



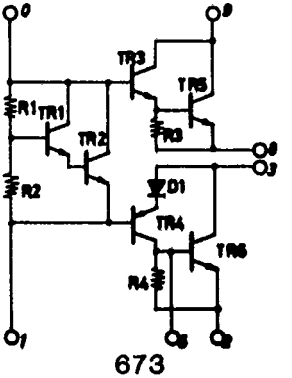
Absolute Maximum Ratings

Characteristic	Symbol	Rating	Unit
Supply Voltage	V_{CC}	±37	V
Collector Current	I_C	5	A
Junction Temperature	T_j	150	°C
Storage Temperature	T_{stg}	−30 to +105	°C
Thermal Resistance	θ	2.4	°C/W
Allowable Load Shorting Time	t_s f = 50 Hz P_O = 25 W	2	sec

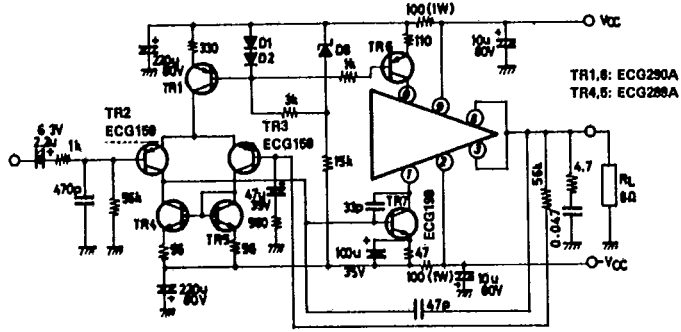
Operational Characteristics (T_A = 25°C, V_{CC} = ±25 V, R_L = 8 Ω, R_g = 600 Ω, V_g = 40 dB)

Characteristic	Symbol	Test Condition	Min	Typ	Max	Unit
Quiescent Current	I_{CCO}	V_{CC} = ±30 V		40	80	mA
Output Power	P_O	THD = 0.1% f = 20 to 20 kHz	25			W
Total Harmonic Distortion	THD-1 THD-2	P_O = 1 to 25 W f = 20 to 20 kHz P_O = 1 W, f = 1 kHz		0.02	0.1	%

Equivalent Circuit



Application



Typical Characteristics