SANYO SEMICONDUCTOR

STK-0080

STK-0080 —— Thick Film Hybrid Integrated Circuit
Output Stage of 80W min. AF Power Amplifier(DPP©)

© DPP : Darlington Power Package

Features

- 2 power supplied 1 channel portion.
- Darlington type pure complementary circuit used.
- This series have same pin assignments and same packages. This enables the peripheral printed pattern board standardized.
- Extremely thermal stabilized, because of the internal thermal compensation circuit and metal plate which has good thermal feedback characteristic.
- Freely able to design a tone characteristic by using a prestage voltage amplifier.

Maximum Ratings at Ta=25°C

Maximum Supply Voltage	V_{CC}max		±65	V
Maximum Collector Current	$I_C$max		10	A
Thermal Resistance	θj-c	ideal state	1.3	°C/W
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg	-30 to +105		°C

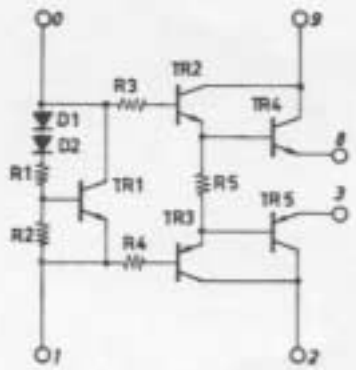
Recommended Operating Condition at Ta=25°C

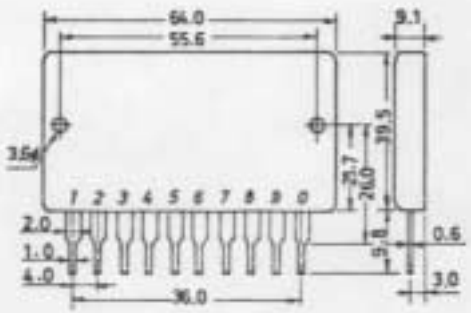
Recommended Supply Voltage	V_{CC}	±46	V
Load Resistance	R_L	8	ohm

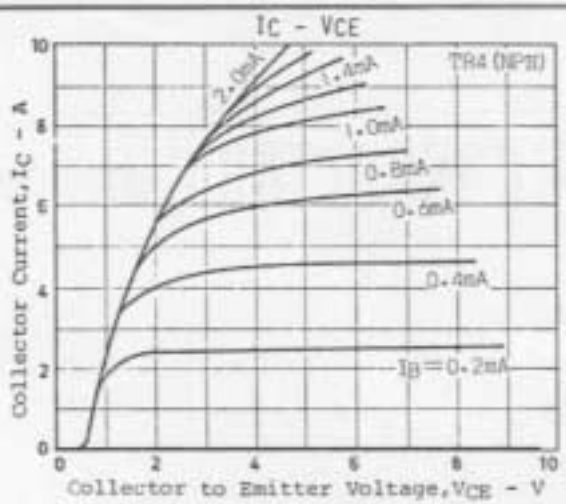
Operation Characteristics at Ta=25°C, V_{CC}=±46V, R_L=8ohm, VG=40dB

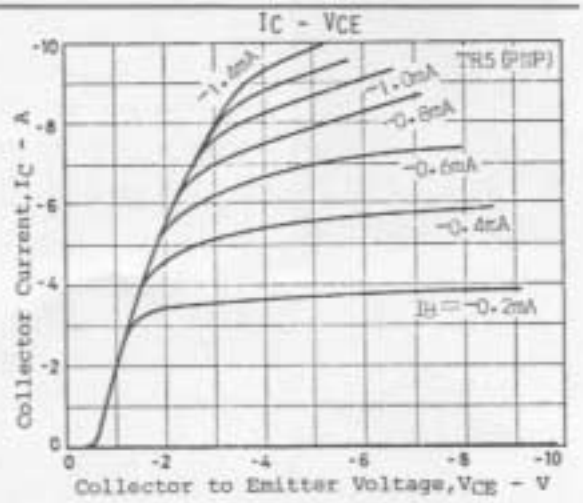
			min	typ	max	unit
Quiescent Current	I_{CCO}	V_{CC}=±55V		40	80	mA
Output Power	P_O	THD=0.1%, f=20 to 20 kHz	80			W
Total Harmonic Distortion	THD(1)	P_O=1 to 80 W, f=20 to 20 kHz			0.1	%
Total Harmonic Distortion	THD(2)	P_O=1W, f=1kHz		0.02		%

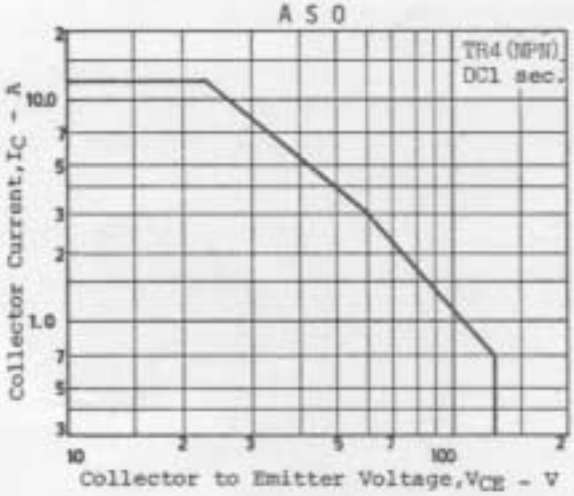
Equivalent Circuit and Case Outline (unit:mm)

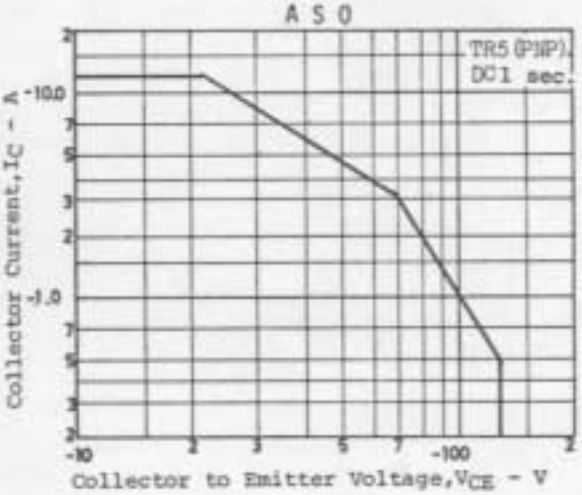


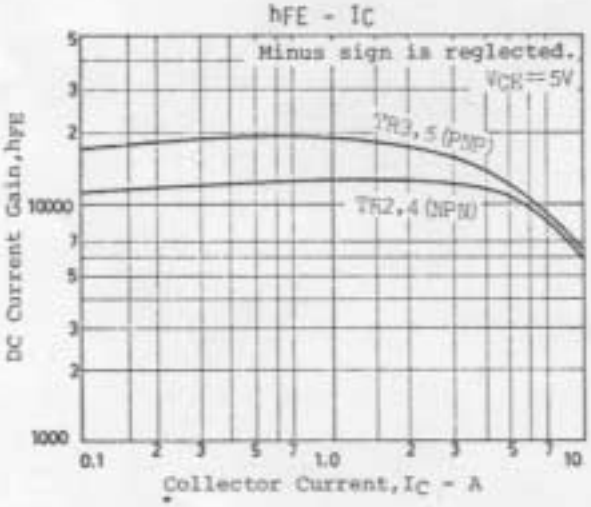












Application : 80W min. AF Power Amplifier