



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_{CCmax}	±65	V
Maximum Collector Current	I_{Cmax}	10	A
Thermal Resistance	θ_{j-c} ideal state	1.3	°C/W
Junction Temperature	T_j	150	°C
Storage Temperature	T_{stg}	-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)



