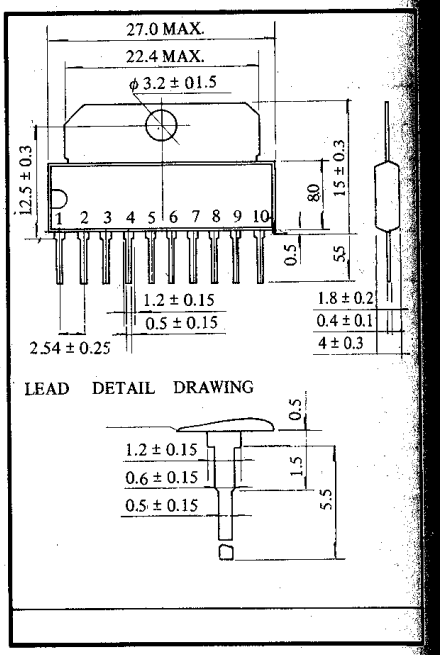
KIA 7205CP

BIPOLAR LINEAR INTEGRATED CIRCUIT
SILICON MONOLITHIC

APPLICATIONS

- 5.8W Audio Power Amplifier.
- For Car-Stereo, Car-Radio Output.

Unit in mm



FEATURES

- Output Power:
  P_{OUT}=5.8W (Typ.) at V_{CC}=13.2V, R_L=4Ω, THD=10%
- Maximum Output Power:
  P_{OM}=9.5W (Typ.) at V_{CC}=13.2V, R_L=4Ω
- Low Distortion:
  THD=0.2% at P_{OUT}=1W, G_V=55dB
  THD=0.08% at P_{OUT}=1W, G_V=44dB
- Wide Operating Supply Voltage Range : V_{CC}=10.5~18V
- Low Noise.
- Current Limiting for Short-Circuit Protection.

■ MAXIMUM RATINGS (Ta=25℃)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Supply Voltage	V_{CC}	18	V
Output Peak Current	I_O (peak)	2	A
Power Dissipation	P_D	6	W

CHARACTERISTIC	SYMBOL	RATING	UNIT
Operating Temperature	T_{opr}	-20~75	℃
Storage Temperature	T_{stg}	-55~150	℃

■ ELECTRICAL CHARACTERISTICS

(V_{CC}=12.5V, R_L=4Ω, R_g=600Ω, R_f=82Ω, f=1KHz, Ta=25℃)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Quiescent Current	I_{CCQ}	-	-	-	80	mA
		V_{CC}=18V	-	-	100	
Output Power	P_{OUT}	THD=10%	4.5	5	-	W
		V_{CC}=13.2V, THD=10%	-	5.8	-	
Maximum Output Power	P_{OM}	V_{CC}=13.2V	-	9.5	-	W
Total Harmonic Distortion	THD	P_{OUT}=1W	-	0.2	1.0	%
		P_{OUT}=100mW	-	0.3	1.0	
Voltage Gain	G_V	V_{IN}=2.45mV_{rms}	52	-	5 8	dB
Input Resistance	R_{IN}	V_{OUT}=2V_{rms}	30	40	-	KΩ
Output Noise Voltage	V_{NO}	R_g=10 KΩ BW=50~20KHz	-	-	4.5	mV