



Monolithic Integrated Circuit

Application: Audio-Amplifier for portable radios, cassette recorders and general purposes.

Features:

- Large supply voltage range
 V_S = 3...16 V
- Low cross-over distortion
- Low harmonic distortion

- Audio output power $P_o = 1.5 \text{ W}$
- Connection possibility for an external capacitor to suppress hum voltage
- Minimum number of external components

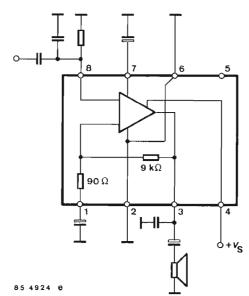


Fig. 1 Block diagram and pin connections

Absolute maximum ratings

Reference point Pin 2, Pin 6

Supply voltage	Pin 4	Vs	16	v
Peak output current	Pin 3	I _{OM}	850	mA
Power dissipation $T_{amb} = 50^{\circ}C$		P _{tot}	1	w
Junction temperature		Ti	150	°C
Storage temperature range		T _{stg}	-25+150	°C
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change consistance				Min.	Typ.	Max.	older of the second
Junction ambient			R _{thJA}			100	к/W
Rectrical characteristics $V_{\rm S} = 9$ V, reference point l $R_{\rm L} = 8 \Omega, d = 10\%, T_{\rm amb} =$							
Supply voltage range		Pin 4	Vs	3		16	v
Quiescent output voltage		Pin 3	V _{ов}	3.9		4.7	v
Quiescent drain current $V_{\rm S} = 3 V$ $V_{\rm S} = 9 V$ $V_{\rm S} = 16 V$	Fig. 2	Pin 4	I _{SB} I _{SB} I _{SB}	2 3.5 3.5	3 7.5 7	6 12 10	mA mA mA
Output power $V_{\rm S}$ = 6 V, $R_{\rm L}$ = 4 Ω			Po Po	0.9 0.6	1		W
Supply voltage rejection ratio $V_{hum} = 0.35 \text{ V}, C_1 = 47 \mu \text{ F},$) Hz	SVR		30		dB
Input resistance		Pin 8	Ri	800			kΩ
Band width (–3 dB)	Fig. 2		В		1002	B0 0 0	Hz
Distortion $P_{\rm o} = 50 {\rm mW}$	Fig. 2		d		0.4	1	%
Voltage gain, closed loop			Gv	37	40	43	dB
Output noise voltage $R_{\rm G} = 0, B = 2222000$ H:	z	Pin 3	V _{no}		250	. 600	μV

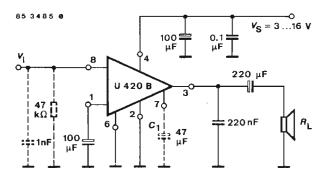


Fig. 2 Test circuit for: P_{o} , P_{tot} , d, V_{nor} , B, G_{v} and application note

