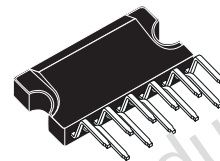


8W AMPLIFIER WITH MUTING

- WIDE SUPPLY VOLTAGE RANGE
- 8W @ $V_S=26V$, $R_L = 8\Omega$, THD=10%
- MUTE FACILITY (POP FREE) WITH LOW CONSUMPTION
- AC SHORT CIRCUIT PROTECTION
- THERMAL OVERLOAD PROTECTION (150°C)

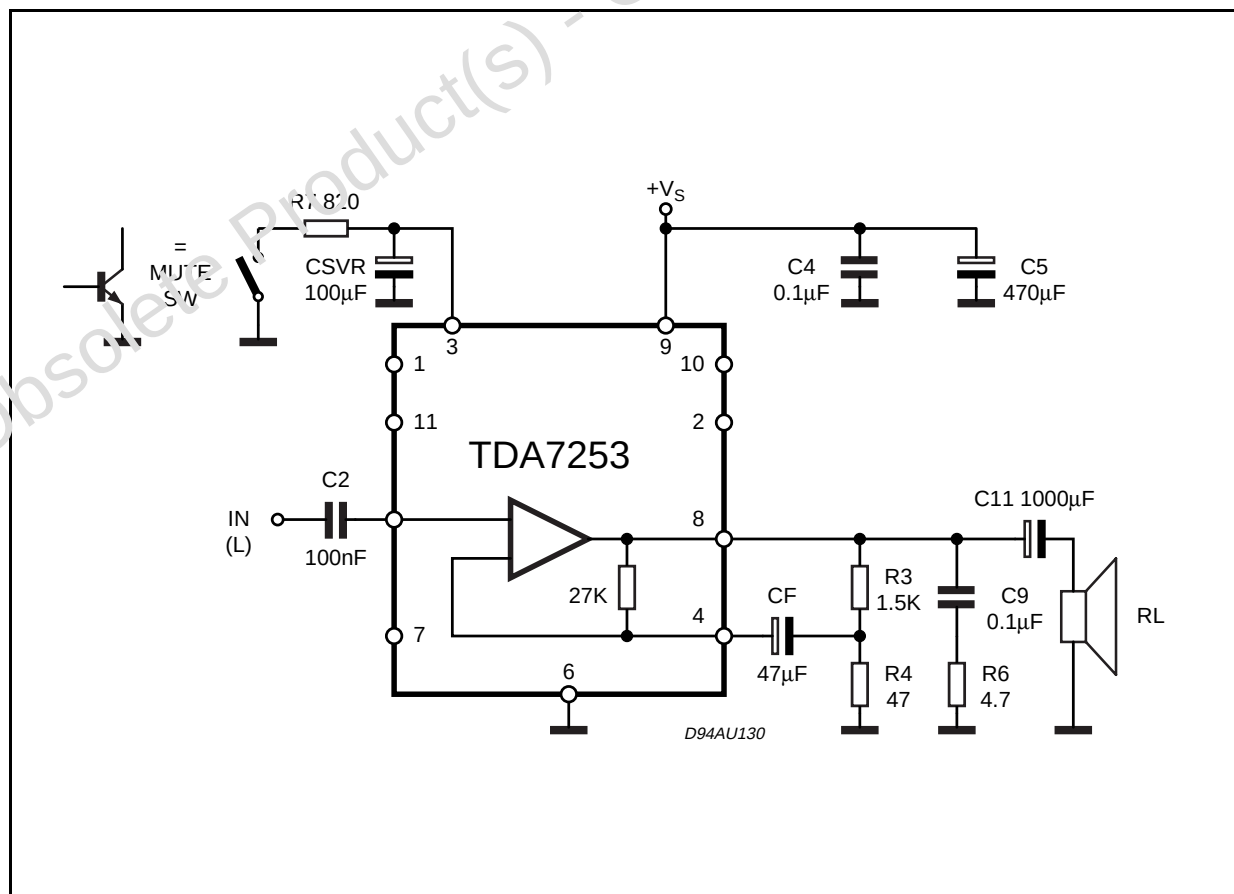
DESCRIPTION

The TDA7253 is class AB audio power amplifier assembled in the new Clipwatt package.



Clipwatt11

APPLICATION CIRCUIT



THERMAL DATA

Symbol	Parameter	Value	Unit
$R_{th\ j-case}$	Thermal resistance junction to case	Max 3	°C/W

ELECTRICAL CHARACTERISTICS (Refer to the test and application circuit, $V_S = 26V$; $R_L = 8\Omega$; $G_V = 30dB$; $f = 1KHz$; $T_{amb} = 25^\circ C$ unless otherwise specified.)

Symbol	Parameter	Test Condition	Min.	Typ.	Max.	Unit
V_S	Supply Voltage		10		32	V
V_O	Quiescent Output Voltage			12.5		V
I_q	Total Quiescent Current			40		mA
P_O	Output Power	$d = 10\%$ $d = 1\%$	8	10 8		V/ W
d	Total Harmonic Distortion	$P_O = 1W$		0.03		%
R_i	Input Resistance		100	100		K Ω
f_L	Low Frequency Roll-off (-3dB)			40		Hz
f_H	High Frequency Roll-off (-3dB)			80		KHz
e_N	Total Input Noise Voltage	A Curve; $R_S = 10K\Omega$ $f = 22Hz$ to $22KHz$; $R_S = 10K\Omega$		2 2.5		mV μV
SVR	Supply Voltage Rejection	$R_S = 10K\Omega$; $f = 100Hz$; $V_i = 0.5V$		60		dB
V_{TMUTE}	Mute Threshold			0.8		V
V_{TPLAY}	Play Threshold		5			V
A_M	Mute Attenuation		80	100		dB
I_{qMUTE}	Quiescent Current Mute			7	10	mA

Note: to avoid pop-on noise $\frac{C_F}{C_{SVR}} \leq 1$

Figure 1: Output Power vs. Supply Voltage

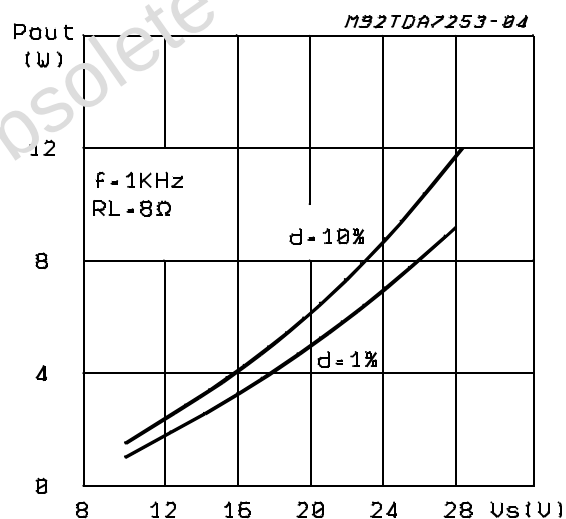
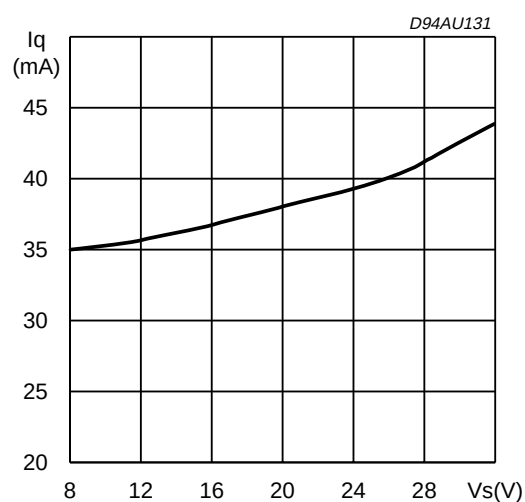


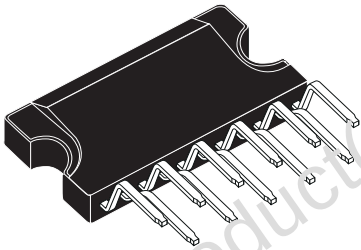
Figure 2: Quiescent Current vs. Supply Voltage



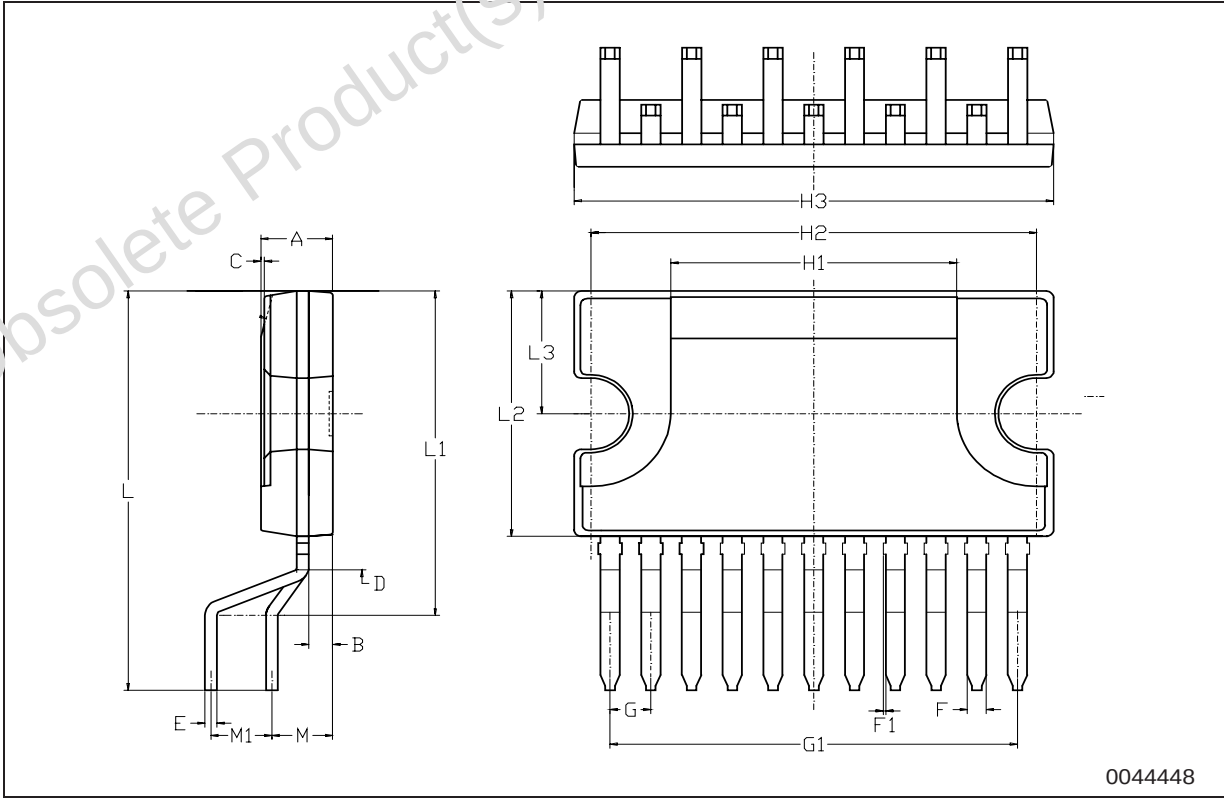
DIM.	mm			inch		
	MIN.	TYP.	MAX.	MIN.	TYP.	MAX.
A			3.2			0.126
B			1.05			0.041
C		0.15			0.006	
D		1.5			0.059	
E	0.49		0.55	0.019		0.002
F	0.77	0.8	0.88	0.030	0.031	0.035
F1			0.15			0.006
G	1.57	1.7	1.83	0.062	0.067	0.072
G1	16.87	17	17.13	0.664	0.669	0.674
H1		12			0.480	
H2		18.6			0.732	
H3	19.85			0.781		
L		17.9			0.700	
L1		14.55			0.580	
L2	10.7	11	11.2	0.421	0.433	0.441
L3		5.5			0.217	
M		2.54			0.100	
M1		2.54			0.100	

**OUTLINE AND
MECHANICAL DATA**

Weight: 1.80gr



Clipwatt11



0044448

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