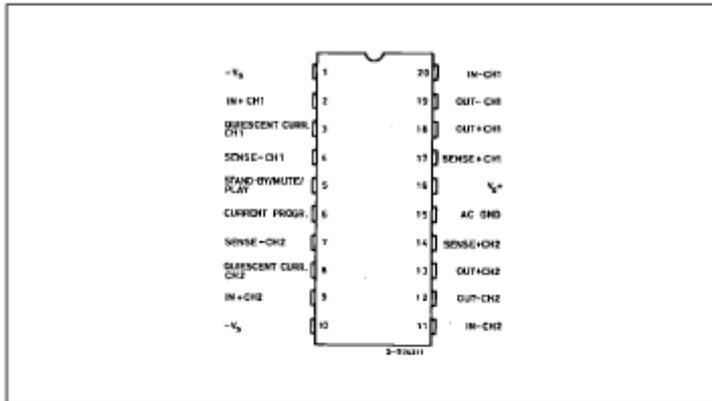


TDA7250

PIN CONNECTION (top view)



ABSOLUTE MAXIMUM RATINGS

Symbol	Parameter	Value	Unit
V_s	Supply Voltage	100	V
P_{Dk}	Power Dissipation at $T_{Amb} = 60\text{ }^\circ\text{C}$	1.4	W
T_j, T_{stg}	Storage and Junction Temperature	- 40 to + 150	$^\circ\text{C}$

THERMAL DATA

Symbol	Parameter	Value	Unit
$R_{\theta(j-a)}$	Thermal Resistance Junction-ambient	Max. 65	$^\circ\text{C/W}$

ELECTRICAL CHARACTERISTICS ($T_{amb} = 25\text{ }^{\circ}\text{C}$, $V_S = \pm 35\text{ V}$, play mode, unless otherwise specified)

Symbol	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
V_S	Supply Voltage		± 10		± 45	V
I_Q	Quiescent Drain Current	Stand-by Mode		8		mA
		Play Mode		10	14	
I_B	Input Bias Current			0,2	1	μA
V_{OS}	Input Offset Voltage			1	± 10	mV
I_{OS}	Input Offset Current			100	200	nA
G_V	Open Loop Voltage Gain	$f = 100\text{ Hz}$		90		dB
		$f = 10\text{ kHz}$		60		
e_n	Input Noise Voltage	$R_G = 600\ \Omega$ $B = 20\text{ Hz to }20\text{ kHz}$		3		μV
SR	Slew Rate			10		V/ μs
d	Total Harmonic Distortion	$G_V = 26\text{ dB}$, $P_O = 40\text{ W}$ $f = 1\text{ kHz}$		0,004		%
		$f = 20\text{ kHz}$		0,03		%
V_{SW}	Output Voltage Swing			60		V _{pk}
P_O	Output Power (*)	$V_S = \pm 35\text{ V}$, $R_L = 8\ \Omega$ $V_S = \pm 30\text{ V}$, $R_L = 8\ \Omega$ $V_S = \pm 35\text{ V}$, $R_L = 4\ \Omega$		60		W
				40		W
				100		W
I_S	Output Current			± 5		mA
SVR	Supply Voltage Rejection	$f = 100\text{ Hz}$		75		dB
C_S	Channel Separation	$f = 1\text{ kHz}$		75		dB

MUTE / STANDBY PLAY FUNCTIONS

Symbol	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
I_I	Input Current (pin 5)			0,1		μA
V_A	Comparator Standby / Mute Threshold (**)		1,0	1,25	1,5	V
H	Hysteresis Standby / Mute			200		mV
V_A	Comparator Mute / Play Threshold (**)		2,4	3,0	3,6	V
H	Hysteresis Mute / Play			300		mV
	Mute Attenuation	$f = 1\text{ kHz}$		60		dB
V_I	Input Voltage Max. (pin 5)		12 (**)			V

(*) Application circuit of fig. 1 $f = 1\text{ kHz}$; $d = 0,1\%$; $G_V = 26\text{ dB}$.
 (**) Referred to $-V_S$.

CURRENT SURVEY CIRCUITRY

Symbol	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
	Comparator Reference	to $+V_S$ to $-V_S$	0,8	1	1,4	V
t_d	Delay Time		10			μs

QUIESCENT CURRENT CONTROL

Symbol	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
	Capacitor Current	Charge Discharge	30	60		μA
			250	500		μA
	Comparator Reference	to $+V_S$ to $-V_S$	10	20	25	mV
				10		mV

