

The LA6532M is a 4-channel BTL-use driver designed for compact disc pickup actuation.

Functions and Features

Ordering number: EN 3265

- \cdot BTL-use 4-channel power amp
- \cdot I₀ max 700mA \times 2400mA \times 2 (with voltage limiter)
- With muting function

Maximum Ratings at Ta = 25°C Maximum Supply Voltage Allowable Power Dissipation Differential Input Voltage Common-Mode Input Voltage Maximum Input Voltage Muting Pin Voltage Operating Temperature Storage Temperature	V _{CC} max Pd max V _{ID} V _{ICM} V _{INB} max V _{Mute} Topr Tstg		Buffer amp	– 20 to – 55 to +		unit V V V V V ℃					
Operating Conditions at Ta = 25			unit								
Maximum Supply Voltage	Supply Voltage V _{CC}				5	V					
Load Resistance	R_L		Pins 3-4,12-13,18-19,27-28		8	Ω					
Operating Characteristics at Ta	min	typ	max	unit							
No-Loaded Current Dissipation 1 I _{CC} 1			Note 1	25	40	60	mA				
No-Loaded Current Dissipation 2ICC2No-Loaded Current Dissipation 3ICC3No-Loaded Current Dissipation 4ICC4		2	Note 2	5	9	2 0	mA				
		3	Note 3	25	40	60	mA				
			Note 4	5	9	20	mA				
Output Offset Voltage 1	V ₀	F1	Note 5 Amp 1-2,7-8	50		50	mV				
Output Offset Voltage 2	V ₀	F^2	Note 5 Amp 3-4,5-6	- 30		30	mV				
	Continued on next page.										





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Buffer 1 Input-Output	V1	Buffer amp 1	min 20	typ	max	unit
Voltage Difference	A BIOT	Builer amp 1	- 30		30	mV
Buffer 2 Input-Output	V _{BIO} 2	Buffer amp 2	0.5	0.6	0.8	v
Voltage Difference						
Amp 2 Input-Output	$V_{IO}2$	Amp 2	0.5	0.6	0.8	v
Voltage Difference						
Amp 7 Input-Output	$V_{IO}7$	Amp 7	0.5	0.6	0.8	v
Voltage Difference						
Input Bias Current	IB	Note 6		100	500	nA
Buffer Input Voltage Range	VBICM	Buffer amp	1.5	V _{CC}	-1.5	v
Common-Mode Input Voltage Range	V _{ICM}		1.0	V _{CC}	-1.5	v
Output Source Voltage	V ₀ 1	$R_L = 8.0\Omega$ 700mA amp (Note 7)	3.4	3 .6		v
Output Sink Voltage	V _O 2	$R_L = 8.0\Omega$ 700mA amp (Note 8)		1.0	1.4	v
Output Source Voltage	V _O 3	$R_L = 8.0\Omega 400 \text{mA amp}$ (Note 7)	2.8	3.4		v
Output Sink Voltage	V _O 4	$R_L = 8.0\Omega 400 \text{ mA amp}$ (Note 8)		1.6	2.2	v
Closed-Circuit Voltage Gain	VG			6.0		dB
Output Limiting Voltage	V _{OL}	Amp 3, amp 6		5.0		v
Muting Pin OFF-State Voltage	V_{Mute}			2.2		v
Muting Pin OFF-State Current	I _{Mute}			80		Α

Note 1 Muting OFF. Buffer $22k\Omega$ across V_{IN-} and V_O . V_{IN+} pin grounded

Note 2 Muting ON. Buffer $22k\Omega$ across V_{IN-} and V_O . V_{IN+} pin grounded

Note 3 Muting OFF. Buffer 22k Ω across $V_{\rm IN-}$ and $V_{\rm O}$. $V_{\rm IN+}$ pin connected to $1/2V_{\rm CC}$

Note 4 Muting ON. Buffer $22k\Omega$ across V_{IN-} and V_O . V_{IN+} pin connected to $1/2V_{CC}$

Note 5 For bridge amp, represents the difference between outputs.

Note 6 All V_{IN} connected to $1/2V_{CC}$. $100k\Omega$ connected to the input. Measure the voltage difference. V_{IN} and V_O connected through $100k\Omega$. Measure the voltage difference between pins.

Note 7 Voltage (source) relative to GND when 8Ω load is connected across outputs of bridge amp Note 8 Voltage (sink) relative to GND when 8Ω load is connected across outputs of bridge amp

※ : Be carefull in handling the LA6532M, because dielectric breakdown is liable to occur.



Equivalent Circuit Block Diagram



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