Ordering number: EN 3265

Functions and Features

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

 BTL-use 4-channel power amp)						
\cdot I _O max 700mA \times 2400mA \times 2 (with v	voltage	limiter)				
• With muting function		Ū.					
-							
Maximum Ratings at Ta = 25°C						unit	
Maximum Supply Voltage	V _{CC} max				9	v	
Allowable Power Dissipation	Pd max				0.9	W	
Differential Input Voltage	V_{ID}				8	v	
Common-Mode Input Voltage	VICM				8	v	
Maximum Input Voltage	V _{INB} max		Buffer amp		8	v	
Muting Pin Voltage	V _{Mute}		•		8	v	
Operating Temperature	Topr			- 20 to -	+75	°C	
Storage Temperature	Tstg			-55 to +		°C	
Operating Conditions at Ta = 25	5°C					unit	
Maximum Supply Voltage	V _{CC}				5	V	
Load Resistance	RL		Pins 3-4,12-13,18-19,27-28		8	Ω	
Operating Characteristics at Ta	min	typ	max	unit			
· · · ·		I _{CC} 1	Note 1	25	40	60	mA
-		I _{CC} 2	Note 2	5	9	20	mA
		I _{CC} 3	Note 3	25	40	60	mA
		I _{CC} 4	Note 4	5	9	20	mA
Output Offset Voltage 1		V _{OF} 1	Note 5 Amp 1-2,7-8	- 50		50	mV
Output Offset Voltage 2		V _{OF} 2	Note 5 Amp 3-4,5-6	- 30		30	mV
			* -	Continued on next pa			page.





SANYO Electric Co., Ltd. Semiconductor Business Headquarters TOKYO OFFICE Tokyo Bldg., 1-10, 1 Chome, Ueno, Taito-ku, TOKYO, 110 JAPAN Continued from preceding page.

D. C. 1 Laure Ordered	V 7 1	Buffer and 1	min 30	typ	max 30	unit mV
Buffer 1 Input-Output	A BIOT	Buffer amp 1	- 30		30	III V
Voltage Difference			0 F	0.0		17
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	VCC	-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	VOL	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		А
-						

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\Omega across $V_{\rm IN-}$ and $V_{\rm O}.~V_{\rm IN+}$ pin connected to 1/2V_{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 \approx : Be carefull in handling the LA6532M, because dielectric breakdown is liable to occur.



Equivalent Circuit Block Diagram



- No products described or contained herein are intended for use in surgical implants, life-support systems, aerospace equipment, nuclear power control systems, vehicles, disaster/crime-prevention equipment and the like, the failure of which may directly or indirectly cause injury, death or property loss.
- Anyone purchasing any products described or contained herein for an above-mentioned use shall: ① Accept full responsibility and indemnify and defend SANYO ELECTRIC CO., LTD., its affiliates, subsidiaries and distributors and all their officers and employees, jointly and severally, against any and all claims and litigation and all damages, cost and expenses associated with such use:
 - ② Not impose any responsibility for any fault or negligence which may be cited in any such claim or litigation on SANYO ELECTRIC CO., LTD., its affiliates, subsidiaries and distributors or any of their officers and employees jointly or severally.
- Information (including circuit diagrams and circuit parameters) herein is for example only; it is not guaranteed for volume production. SANYO believes information herein is accurate and reliable, but no guarantees are made or implied regarding its use or any infringements of intellectual property rights or other rights of third parties.