

<b>SANYO</b>	No.3265	<b>LA6532M</b>
		<b>4-Channel BTL-Use Driver</b>

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

**Functions and Features**

- BTL-use 4-channel power amp
- I<sub>Q</sub> max 700mA × 2400mA × 2 (with voltage limiter)
- With muting function

**Maximum Ratings at Ta = 25°C**

			unit
Maximum Supply Voltage	V <sub>CC</sub> max	9	V
Allowable Power Dissipation	P <sub>d</sub> max	0.9	W
Differential Input Voltage	V <sub>ID</sub>	8	V
Common-Mode Input Voltage	V <sub>ICM</sub>	8	V
Maximum Input Voltage	V <sub>INB</sub> max	8	V
Muting Pin Voltage	V <sub>Mute</sub>	8	V
Operating Temperature	T <sub>opr</sub>	- 20 to + 75	°C
Storage Temperature	T <sub>stg</sub>	- 55 to + 150	°C

**Operating Conditions at Ta = 25°C**

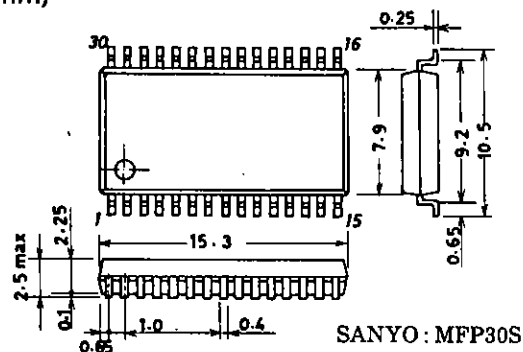
			unit
Maximum Supply Voltage	V <sub>CC</sub>	5	V
Load Resistance	R <sub>L</sub>	Pins 3-4,12-13,18-19,27-28	8 Ω

**Operating Characteristics at Ta = 25°C, V<sub>CC</sub> = 5.0V**

			min	typ	max	unit
No-Loaded Current Dissipation 1	I <sub>CC1</sub>	Note 1	25	40	60	mA
No-Loaded Current Dissipation 2	I <sub>CC2</sub>	Note 2	5	9	20	mA
No-Loaded Current Dissipation 3	I <sub>CC3</sub>	Note 3	25	40	60	mA
No-Loaded Current Dissipation 4	I <sub>CC4</sub>	Note 4	5	9	20	mA
Output Offset Voltage 1	V <sub>OF1</sub>	Note 5 Amp 1-2,7-8	- 50		50	mV
Output Offset Voltage 2	V <sub>OF2</sub>	Note 5 Amp 3-4,5-6	- 30		30	mV

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**Package Dimensions 3073A-M30IC**  
(unit : mm)



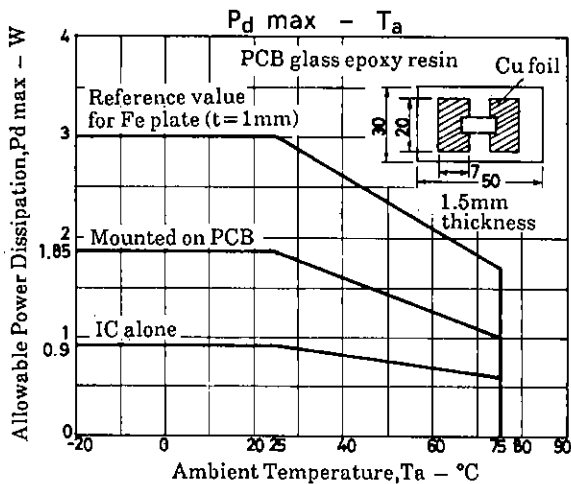
SANYO : MFP30S

LA6532M

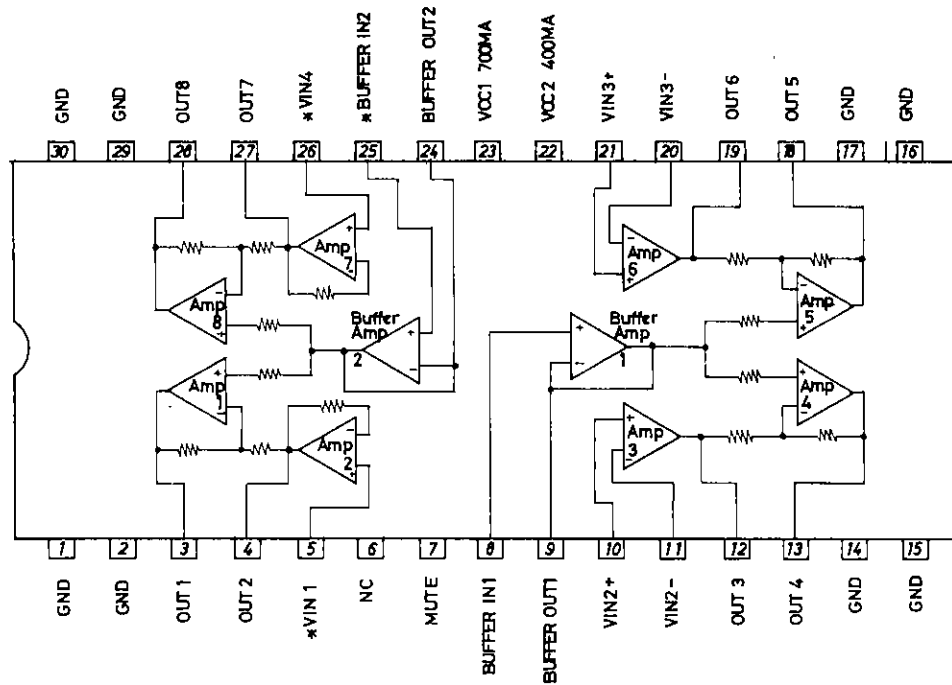
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			min	typ	max	unit
Buffer 1 Input-Output Voltage Difference	$V_{BIO1}$	Buffer amp 1	-30		30	mV
Buffer 2 Input-Output Voltage Difference	$V_{BIO2}$	Buffer amp 2	0.5	0.6	0.8	V
Amp 2 Input-Output Voltage Difference	$V_{IO2}$	Amp 2	0.5	0.6	0.8	V
Amp 7 Input-Output Voltage Difference	$V_{IO7}$	Amp 7	0.5	0.6	0.8	V
Input Bias Current	$I_B$	Note 6		100	500	nA
Buffer Input Voltage Range	$V_{BICM}$	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	$V_{O1}$	$R_L=8.0\Omega$ 700mA amp (Note 7)	3.4	3.6		V
Output Sink Voltage	$V_{O2}$	$R_L=8.0\Omega$ 700mA amp (Note 8)		1.0	1.4	V
Output Source Voltage	$V_{O3}$	$R_L=8.0\Omega$ 400mA amp (Note 7)	2.8	3.4		V
Output Sink Voltage	$V_{O4}$	$R_L=8.0\Omega$ 400mA amp (Note 8)		1.6	2.2	V
Closed-Circuit Voltage Gain	$V_G$			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		A

- 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  $V_{IN-}$  and  $V_O$ .  $V_{IN+}$  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 8 $\Omega$  load is connected across outputs of bridge amp
  - Note 8 Voltage (sink) relative to GND when 8 $\Omega$  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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