Ordering number: EN 真能LA6533供应商

Monolithic Linear IC



No.3266

LA6533

2-Channel BTL-Use or 4-Channel Driver

The LA6533 is a 2-channel BTL-use driver designed for compact disc pickup actuation or a 4-channel driver for general-purpose applications.

Functions and Features

- · High output current ($I_0 \max = 0.5A$)
- · Wide operating voltage range (4 to 15V)
- · Low input bias current
- · On-chip thermal shutdown
- · Output of amps 1 to 4 at muting-ON mode: OFF

				ullit
Maximum Supply Voltage	$V_{ m CC}$ max		16	V
Allowable Power Dissipation	Pd max		1.9	W
Maximum Input Voltage	V _{INB} max	Buffer amp	15	V
Muting Pin Current	I _M max		1	mA
Maximum Output Current	I _O max		0.7	Α
Operating Temperature	Topr		-20 to +75	$^{\circ}\mathrm{C}$
Storage Temperature	Tstg		-55 to +150	$^{\circ}\mathrm{C}$

Operating Conditions at Ta = 25°C

peraning continuous at ra-	20 0				unit
Maximum Supply Voltage	$\rm v_{cc}$			5	V
Load Resistance	$R_{\scriptscriptstyle I}$	Pins 3-6.11-14		8	0

Operating	Characteristics	at Ta=	:25°C	$V_{CC} = 5.0V$
ONGLANILE	Unar accertance	$a_1 \cdot a_2 - a_3$	・ムロノしん	$\mathbf{v} \cap \mathbf{v} = \mathbf{u} \cdot \mathbf{u} \cdot \mathbf{v}$

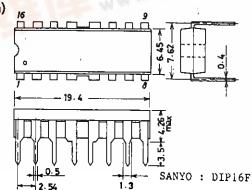
No-Loaded Current Dissipation 1	I _{CC} 1	Mute OFF (Note 1)	5	10	20	mA
No-Loaded Current Dissipation 2	I _{CC} 2	Mute ON	3	7	15	mΑ
No-Loaded Current Dissipation 3	$I_{CC}3$	Mute OFF (Note 2)	10	20	30	mA
No-Loaded Current Dissipation 4	$I_{CC}4$	Mute ON	4	8	16	mA
Output Offset Voltage 1	$V_{OF}1$	Out 1 - Out 2	-50		50	mV
Output Offset Voltage 2	$V_{ m OF}2$	Out 3 - Out 4	50		50	mV
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min

unit

Package Dimensions 3054A-D16FNIC (unit:mm)



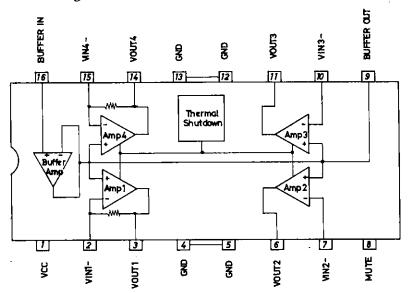


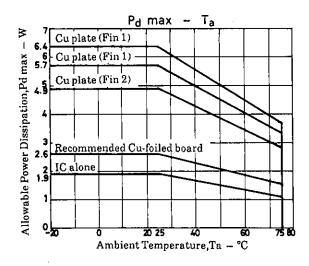
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			min	typ max	unit
Buffer Input-Output	V_{BIO}	Buffer amp	30	30	mV
Voltage Difference					
Buffer Input Voltage Range	V_{BICM}	Buffer amp	1.5	$V_{\rm CC}-1.5$	V
Amp Input Voltage Range	V_{ICM}		1.0	$V_{\rm CC}-1.5$	V
Input Bias Current	$I_{\mathbf{B}}$			50	nΑ
Output Voltage	v_{o}	$R_L = 8.0\Omega$	2.8	3.3	V
Bridge Output Voltage Difference	V_{OD}	Pins 3-6,11-14 8Ω load	1.8	2.2	V
Closed-Circuit Voltage Gain	$V_{\mathbf{G}}$			6.0	dΒ
Muting Pin ON-State Voltage	$V_{\mathbf{M}}$			0.7	V
Muting Pin Flow-in Current	$\mathbf{I}_{\mathbf{M}}$			3.0	μA
Note 1) Pins 2, 7, 10, 15 : GND					-

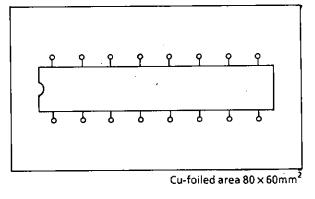
Equivalent Circuit Block Diagram

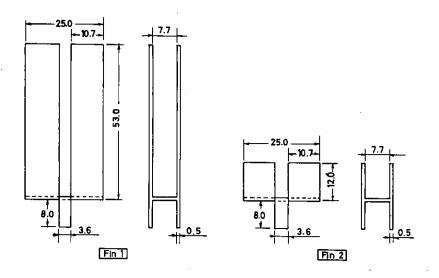
Note 2) Pins 2, 7, 10, 15: 1/2V_{CC}



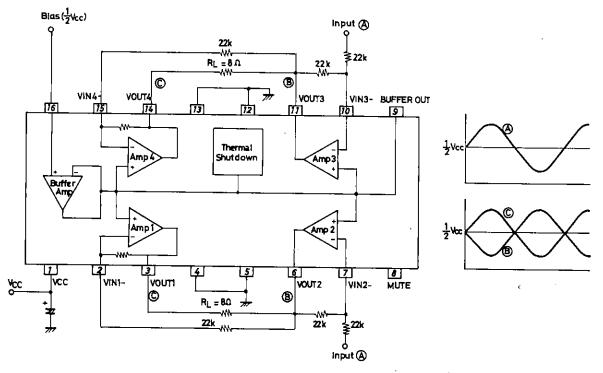


Sample Printed Circuit Pattern





Sample Application Circuit



Unit (resistance: Ω capacitance:F)

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