Monolithic Linear IC

SANYO 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_O 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

Maximum Ratings at Ta = 25°C

				unit
Maximum Supply Voltage	V_{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	A
Operating Temperature	Topr		−20 to +75	°C
Storage Temperature	Tstg		−55 to +150	°C

Operating Conditions at Ta = 25°C

				unit
Maximum Supply Voltage	V_{CC}		5	V
Load Resistance	R_L	Pins 3-6,11-14	8	Ω

Operating Characteristics at Ta = 25°C, V_{CC} = 5.0V

			min	typ	max	unit
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	mA
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	$V_{OF}2$	Out 3 - Out 4	−50		50	mV

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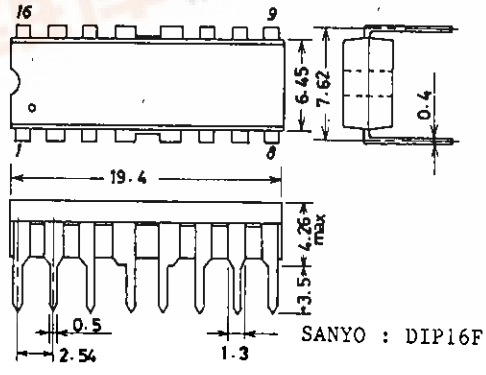
Package Dimensions 3054A-D16FNIC
(unit : mm)



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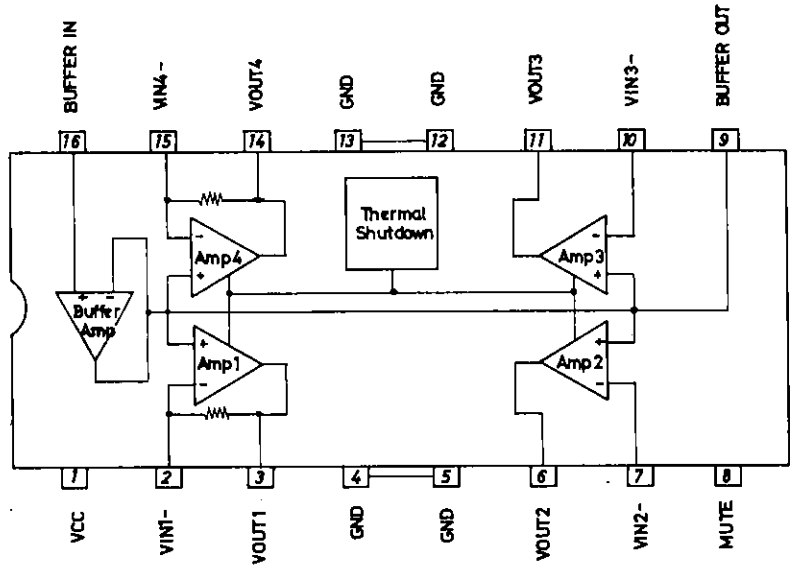
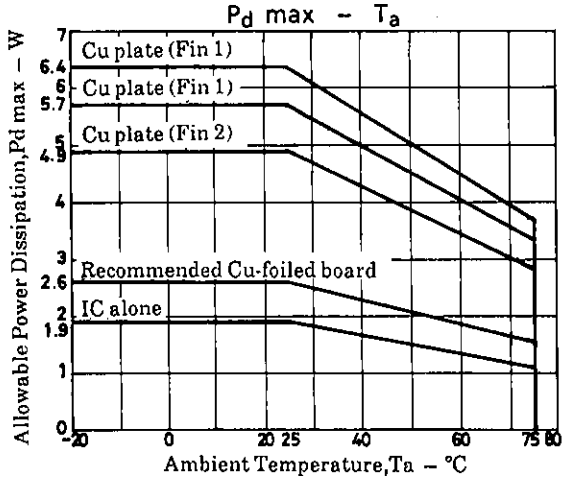
			min	typ	max	unit
Buffer Input-Output Voltage Difference	V_{BIO}	Buffer amp	−30		30	mV
Buffer Input Voltage Range	V_{BICM}	Buffer amp	1.5	$V_{CC}-1.5$		V
Amp Input Voltage Range	V_{ICM}		1.0	$V_{CC}-1.5$		V
Input Bias Current	I_B			50		nA
Output Voltage	V_O	$R_L=8.0\Omega$	2.8	3.3		V
Bridge Output Voltage Difference	V_{OD}	Pins 3-6,11-14 8Ω load	1.8	2.2		V
Closed-Circuit Voltage Gain	V_G			6.0		dB
Muting Pin ON-State Voltage	V_M			0.7		V
Muting Pin Flow-in Current	I_M			3.0		μA

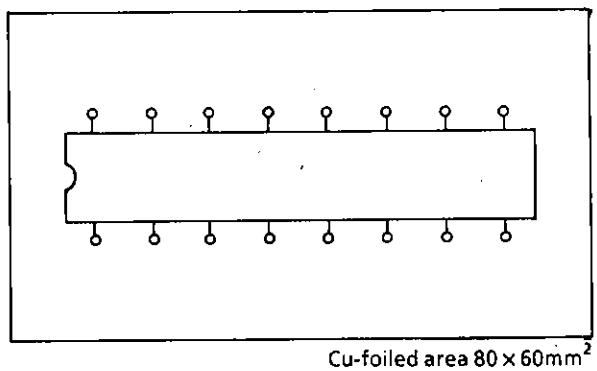
Note 1) Pins 2, 7, 10, 15 : GND
Note 2) Pins 2, 7, 10, 15 : $1/2V_{CC}$

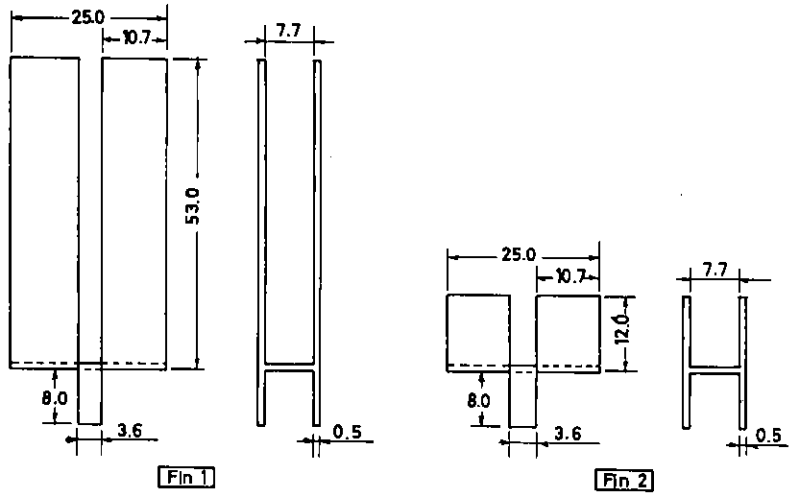
Equivalent Circuit Block Diagram



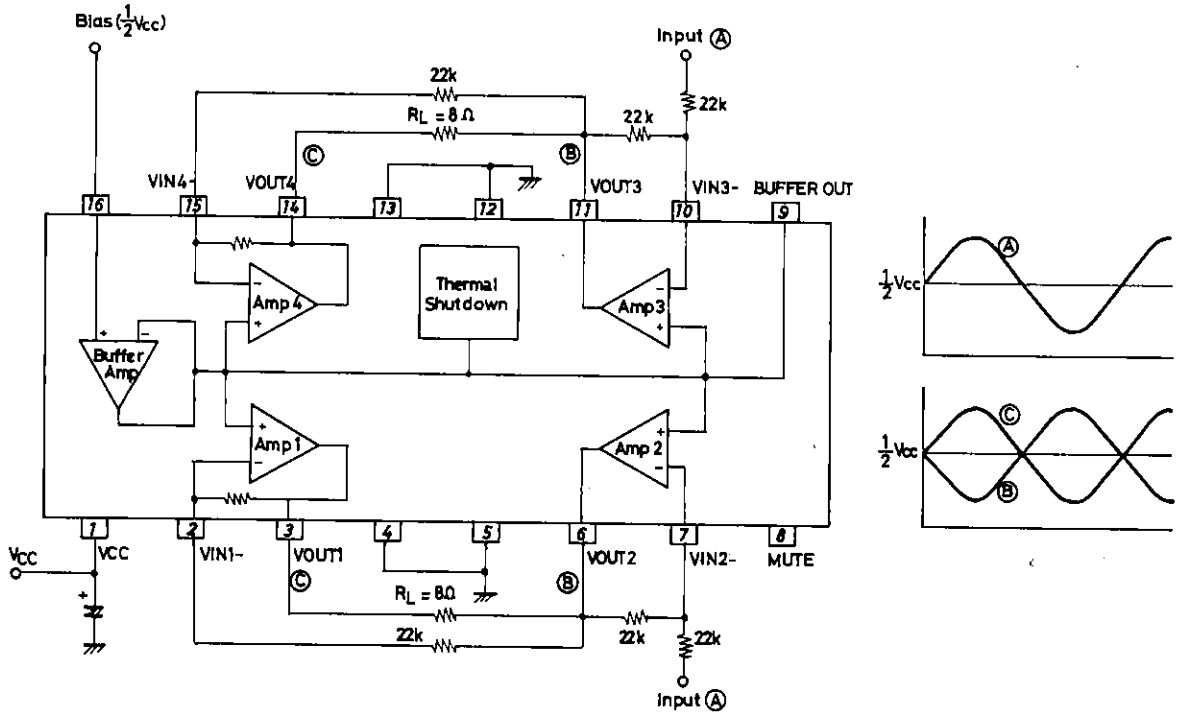


Sample Printed Circuit Pattern





Sample Application Circuit



Unit (resistance:Ω capacitance:F)