

LA6530,6531

2-Channel BTL-Use Drivers

The LA6530, 6531 are 2-channel BTL-use drivers designed for compact disc pickup actuation.

Functions and Features

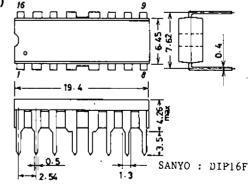
· High output current ($I_0 \max = 0.7A$)

 $\label{eq:continuous} |\psi_{i}(\mathbf{r})| = |\psi_{i}(\mathbf{r})| + |\psi_{i}$

- · Wide operating voltage range (4 to 15V)
- · Low input bias current
- · LA6530 Output of amps 1 to 4 at muting-ON mode: OFF
- LA6531 Output of amps 1 to 4 and buffer amp at muting-ON mode : OFF

Maximum Ratings at Ta = 25°C Maximum Supply Voltage Allowable Power Dissipation Differential Input Voltage Common-Mode Input Voltage Maximum Input Voltage Maximum Flow-in Current at Muting Pin	V_{CC} max Pd max V_{ID} V_{ICM} V_{INB} max I_M max	Amp 2, amp 3 Amp 2, amp 3 Buffer amp	1	16 .9 15 15 15	unit V W V V V mA	
Maximum Output Current Operating Temperature Storage Temperature	I _O max Topr Tstg		- 20 to +7 - 55 to +18		°C °C	
Operating Conditions at Ta = 25 Maximum Supply Voltage Load Resistance	5°C V _{CC} max R _L			5 8	unit V Ω	
Operating Characteristics at Ta No-Loaded Current Dissipation No-Loaded Current Dissipation No-Loaded Current Dissipation No-Loaded Current Dissipation	$egin{array}{lll} 1 & I_{CC}1 \\ 12 & I_{CC}2 \\ 13 & I_{CC}3 \\ \end{array}$	= 5.0V Mute OFF,pins 8,9,16 GND Mute OFF,pins 8,9,16 GND Mute OFF,pins 8,9,16 1/2 V _{CO} Mute OFF,pins 8,9,16 1/2 V _{CO}	5 3 10	typ 10 7 20 8 ued	max 20 15 30 16 on next	unit mA mA mA mA

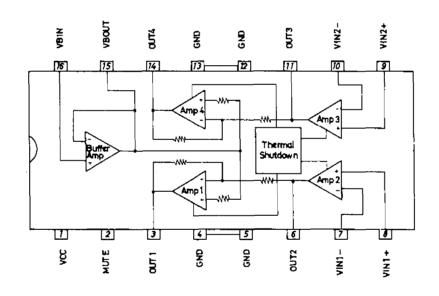
Package Dimensions 3054A-D16FNIC (unit:mm) 16

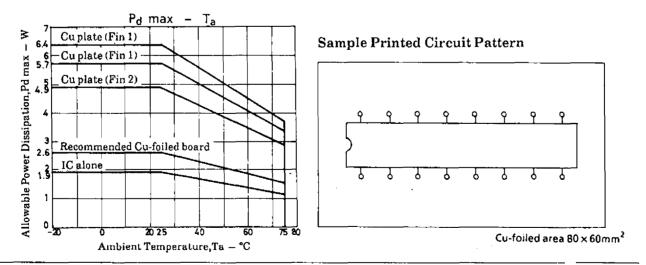


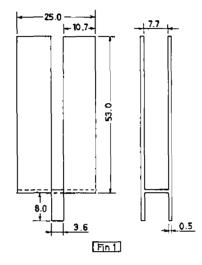
			min	typ max	unit
Output Offset Voltage 1	$V_{OF}1$	Out 1 - Out 2	-50	50	mV
Output Offset Voltage 2	$V_{OF}2$	Out 4 - Out 3	-50	50	mV
Buffer Input-Output	V_{BIO}	Buffer amp	-30	30	mV
Voltage Difference					
Buffer Input Voltage Range	V_{BICM}	Buffer amp	1.5	$V_{\rm CC}-1.5$	V
Common-Mode Input Voltage Range	V_{ICM}	Amp 2, amp 3	1.0	$V_{\rm CC}-1.5$	V
Input Bias Current	I_B			50 300	nΑ
Output Voltage	v_0	$R_L = 8.0\Omega$	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	•	30	38	dB
Muting Pin ON-State Voltage	V_{M}			0.7	V
Muting Pin Flow-in Current	$I_{\mathbf{M}}$			3	μΑ
Muting Pin Flow-in Current Note) With thermal shutdown function				3	

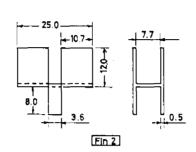
- * : The LA6530 is so designed that the outputs at OUT1 to OUT4 are turned OFF and the output at VBOUT is not turned OFF at the muting-ON mode.
- \divideontimes : The LA6531 is so designed that the outputs at OUT1 to OUT4 and the output at VBOUT are turned OFF.
- * : Be carefull in handling the LA6530, 6531, because dielectric breakdown is liable to occur.

Equivalent Circuit Block Diagram









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