

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

Functions and Features	-0.77	、									
 High output current (I_O max = 0.7A) Wide operating voltage range (4 to 15V) 											
Low input bias current											
• 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											
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Maximum Ratings at Ta=25°C						unit					
Maximum Supply Voltage	V _{CC}	max			16	v					
Allowable Power Dissipation	Pd r	nax			1.9	W					
Differential Input Voltage	V_{ID}		Amp 2, amp 3		15	v					
Common-Mode Input Voltage	V _{ICM}		Amp 2, amp 3		15	v					
Maximum Input Voltage	V _{INB} max		Buffer amp		15	v					
Maximum Flow-in Current	I _M max				1.0	mA					
at Muting Pin											
Maximum Output Current	I _O max Topr Tstg				0.7	A					
Operating Temperature				- 20 to -		°C					
Storage Temperature			-	-55 to +	150	°C					
Operating Conditions at Ta=25	5°C					unit					
Maximum Supply Voltage	Vcc	max			5	v					
Load Resistance	R_L				8	Ω					
Operating Characteristics at Ta	a = 25	°C.Vcc	=5.0V	min	typ	max	unit				
No-Loaded Current Dissipation 1		I _{CC} 1	Mute OFF, pins 8,9,16 GND	5	10	20	mA				
No-Loaded Current Dissipation		I _{CC} 2	Mute OFF, pins 8,9,16 GND	3	7	15	mA				
No-Loaded Current Dissipation	13	I _{CC} 3	Mute OFF, pins 8,9,16 1/2 V _{CC}	10	2 0	30	mA				
No-Loaded Current Dissipation	14	$I_{CC}4$	Mute OFF, pins 8, 9, 16 $1/2 V_{CC}$	4	8	16	mA				
				Conti	inued	on next	page.				
Package Dimensions 3054A-D16FNIC											
(unit:mm) ₁₆											
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			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	$V_{CC} - 1.5$	v			
Common-Mode Input Voltage Range	V_{ICM}	Amp 2, amp 3	1.0	$V_{CC} - 1.5$	v			
Input Bias Current	IB			50 300	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	VG		30	38	dB			
Muting Pin ON-State Voltage	VM			0.7	v			
Muting Pin Flow-in Current	IM			3	μA			
Note) With thermal shutdown function								

Continued from preceding page.

* : 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.

* : 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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