



1A Power Operational Amplifier

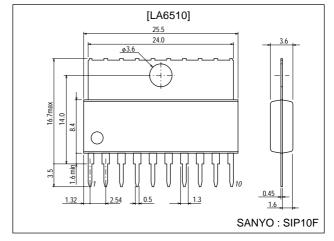
Features

- High output current (I_O max=1.0A).
- High gain.
- Equipped with current limiter pin (Adjustable by external settings).
- Supports single power source operation.

Package Dimensions

unit:mm

3046B-SIP10F



Specifications

Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Maximum supply voltage	V _{CC} /V _{EE} max		±18	V
Differential input voltage	V _{ID}		30	V
Common mode input voltage	VICOM		±15	V
Maximum output current	I _O max		1.0	Α
Allowable power dissipation	Pd max		2.5	W
Operating temperature	Topr		-20 to +75	°C
Storage temperature	Tstg		-55 to +150	°C

Operating Characteristics at Ta = 25°C, $V_{CC}/V_{EE} = \pm 15V$

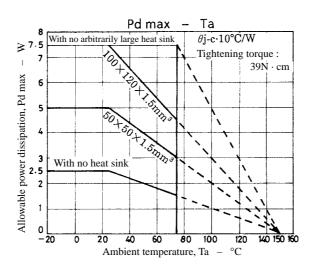
Parameter	Symbol	Conditions	Ratings			Unit
	Symbol		min	typ	max	01111
No-load current drain	Icco			12	20	mA
Input offset voltage	V _{IO}	R _S ≤10kΩ		2	6	mV
Input offset current	IIO			10	200	nA
Input bias current	Ι _Β			100	700	nA
Common mode input voltage range	VICM		-15		+13	V
Common mode signal rejection ratio	C _{RM}		70	80		dB
Maximum output voltage	V _O max	R _L =33Ω	±12	±13		V
Voltage gain	VGO			100		dB

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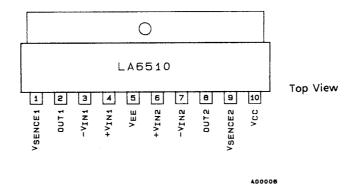
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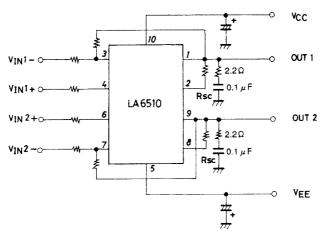
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Offic
Slew rate	SR	G_V =0, R_L =33Ω, R =2.2Ω, C =0.1 μ F		0.15		V/µs
Equivalent input noise voltage	V _{NI}	Rg=1kΩ, DIN AUDIO		2		μV
Supply voltage rejection ratio	SVRR			30	150	μV/V
Limiting current	I _{SC}	$R_{SC}=2.2\Omega$		0.35		Α



Pin Assignment



Sample Application Circuit



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