



Power Operational Amplifier

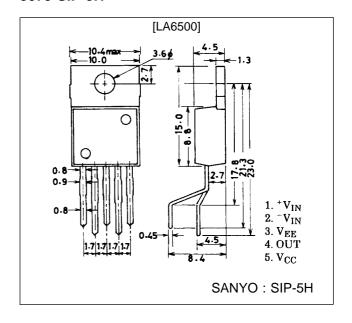
Features

- High output current (Io max = 1.0 A)
- · High gain
- · With current limiter
- · Capable of being operated from single supply

Package Dimensions

unit: mm

3079-SIP-5H



Specifications

Maximum Ratings at $Ta = 25^{\circ}C$

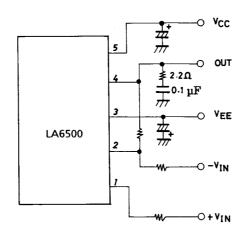
Parameter	Symbol	Conditions	Ratings	Unit	
Maximum supply voltage	V _{CC} /V _{EE}		±18	V	
Differential input voltage	V _{IDIf}		30	V	
Common-mode input voltage	V _{ICOM}		±15	V	
Output current	lo max		1.0	Α	
Allowable power dissipation	Pd max		1.75	W	
Operating temperature	Topr		-20 to +75	°C	
Storage temperature	Tstg		-55 to +150	°C	

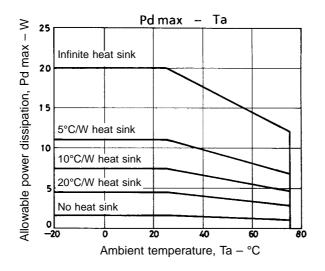
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Operating Characteristics at Ta = 25°C, $V_{\rm CC}/V_{\rm EE}$ = $\pm 15~V$

Parameter	Symbol	Conditions	min	typ	max	Unit
Quiescent current dissipation	Icco			6		mA
Input offset voltage	V _{IO}	$Rs \leq 10 \text{ k}\Omega$		2		mV
Input offset current	I _{IO}			10		nA
Input bias current	I _B			100		nA
Common-mode input voltage	V _{ICM}		-15		+13	V
range			-13			
Common-mode rejection	CMR			80		dB
Maximum output voltage	Vo	$R_L = 33 \Omega$		±13		V
Voltage gain	VGO			100		dB
Slew rate	SR	$G_V = 0$, $R_L = 33 \Omega$, $R = 2.2 \Omega$, $L = 0.1 \mu F$		0.15		V/µs
Equivalent input noise voltage	V _{NI}	Rg = 1 k Ω , DIN Audio		2		μV
Supply voltage rejection	SVR			30		μV/V
Limiting current	I _{SC}			1.00		Α

Sample Application Circuit





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