

SANYO

No.2626A

LA6501

Power Operational Amplifier

Features

- . High output current ($I_o \text{ max}=1.0A$)
- . High gain
- . With current limiter
- . Capable of being operated from single supply

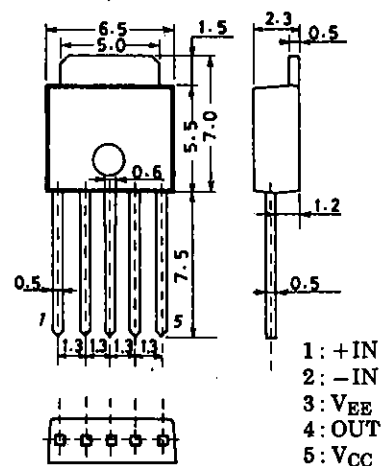
Maximum Ratings at Ta=25°C

Maximum Supply Voltage	V_{CC}/V_{EE}	± 18	V
Differential Input Voltage	V_{IDif}	30	V
Common-Mode Input Voltage	V_{ICOM}	± 14	V
Output Current	$I_o \text{ max}$	1.0	A
Allowable Power Dissipation	$P_d \text{ max}$	1	W
Operating Temperature	T_{opr}	-20 to +75	$^{\circ}\text{C}$
Storage Temperature	T_{stg}	-55 to +150	$^{\circ}\text{C}$

Operating Characteristics at $T_a=25^{\circ}\text{C}$, $V_{CC}/V_{EE}=\pm 15\text{V}$

Operating Characteristics at $T_a=25^{\circ}\text{C}$, $V_{CC}/V_{EE}=\pm 15\text{V}$			min	typ	max	unit
Quiescent Current Dissipation	I_{CCO}			6		mA
Input Offset Voltage	V_{IO}	$R_s \leq 10\text{kohms}$		2		mV
Input Offset Current	I_{IO}			10		nA
Input Bias Current	I_B			100		nA
Common-Mode Input Voltage Range	V_{ICM}		-15		+13	V
Common-Mode Rejection	CMR			80		dB
Maximum Output Voltage	V_o	$R_L = 33\text{ohms}$		± 13		V
Voltage Gain	V_{GO}			100		dB
Slew Rate	SR	$G_V=0, R_L=33\text{ohms},$ $R=10\text{ohms}, L=0.1\mu\text{F}$		0.15		V/ μs
Equivalent Input Noise Voltage	V_{NI}	$R_g=1\text{kohm}, \text{DIN Audio}$		2		μV
Supply Voltage Rejection	SVR			30		$\mu\text{V/V}$
Limiting Current	I_{sc}			1.00		A

Package Dimensions 3103 (unit : mm)



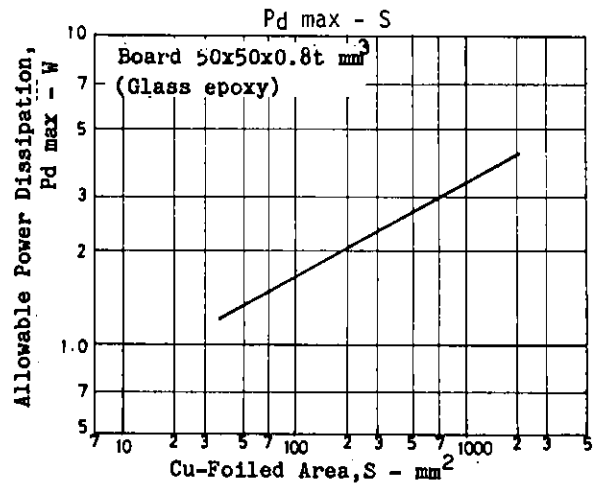
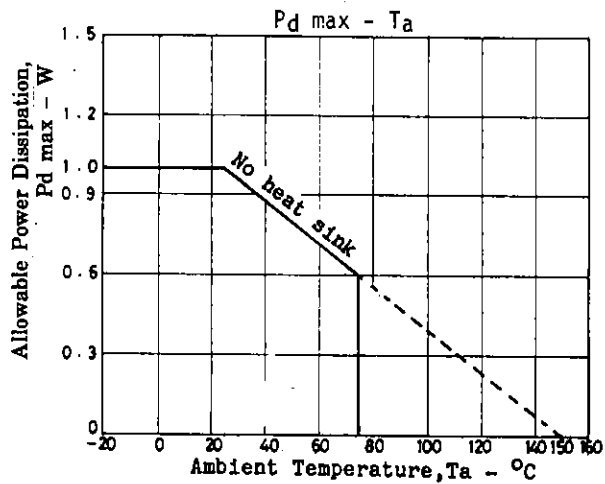
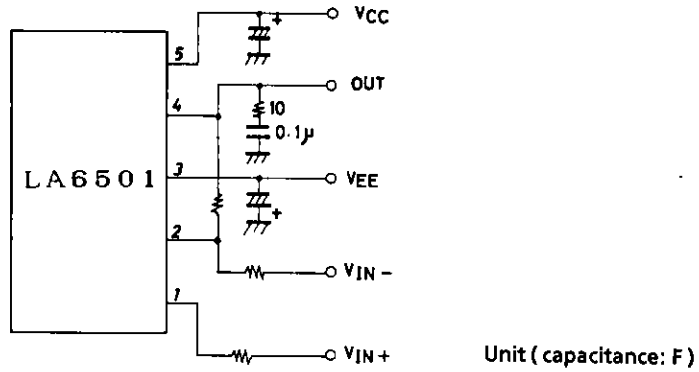
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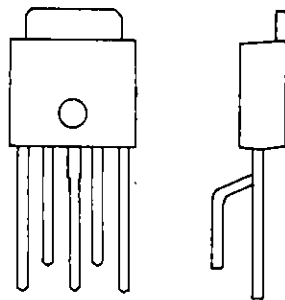
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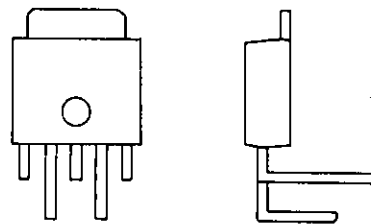
Sample Application Circuit



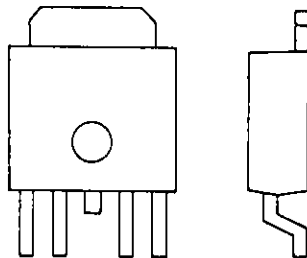
Lead Formings



MA forming



LR forming



FA forming

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