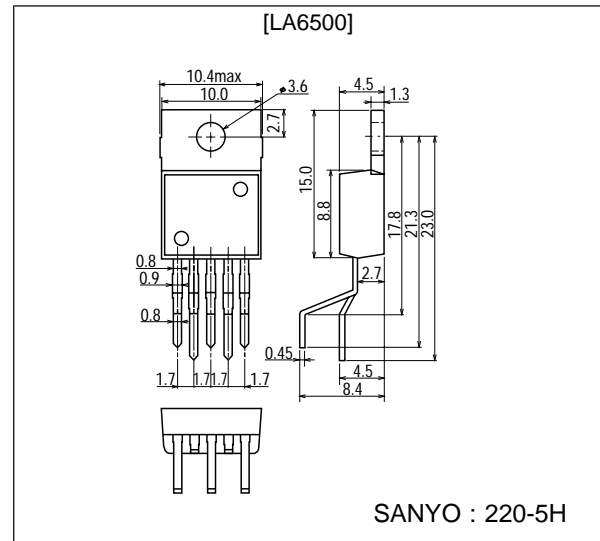


**LA6500****Power Operational Amplifier****Features**

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

**Package Dimensions**

unit : mm

**3079-220-5H****Specifications****Maximum Ratings at  $T_a = 25^\circ\text{C}$** 

Parameter	Symbol	Conditions	Ratings	Unit
Maximum supply voltage	$V_{CC}/V_{EE}$		$\pm 18$	V
Differential input voltage	$V_{IDif}$		30	V
Common-mode input voltage	$V_{ICOM}$		$\pm 15$	V
Output current	$I_o \text{ max}$		1.0	A
Allowable power dissipation	$P_d \text{ max}$		1.75	W
Operating temperature	$T_{opr}$		-20 to +75	$^\circ\text{C}$
Storage temperature	$T_{stg}$		-55 to +150	$^\circ\text{C}$

■ Any and all SANYO products described or contained herein do not have specifications that can handle applications that require extremely high levels of reliability, such as life-support systems, aircraft's control systems, or other applications whose failure can be reasonably expected to result in serious physical and/or material damage. Consult with your SANYO representative nearest you before using any SANYO products described or contained herein in such applications.

■ SANYO assumes no responsibility for equipment failures that result from using products at values that exceed, even momentarily, rated values (such as maximum ratings, operating condition ranges, or other parameters) listed in products specifications of any and all SANYO products described or contained herein.

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32896HA(II)/7297TA,TS No.2623-1/3

## LA6500

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

Parameter	Symbol	Conditions	min	typ	max	Unit
Quiescent current dissipation	$I_{CCO}$			6		mA
Input offset voltage	$V_{IO}$	$R_s \leq 10\text{ k}\Omega$		2		mV
Input offset current	$I_{IO}$			10		nA
Input bias current	$I_B$			100		nA
Common-mode input voltage range	$V_{ICM}$		-15		+13	V
Common-mode rejection	CMR			80		dB
Maximum output voltage	$V_o$	$R_L = 33\ \Omega$		$\pm 13$		V
Voltage gain	$V_{GO}$			100		dB
Slew rate	SR	$G_V = 0$ , $R_L = 33\ \Omega$ , $R = 2.2\ \Omega$ , $L = 0.1\ \mu\text{F}$		0.15		V/ $\mu\text{s}$
Equivalent input noise voltage	$V_{NI}$	$R_g = 1\text{ k}\Omega$ , DIN Audio		2		$\mu\text{V}$
Supply voltage rejection	SVR			30		$\mu\text{V/V}$
Limiting current	$I_{SC}$			1.00		A

### Sample Application Circuit

