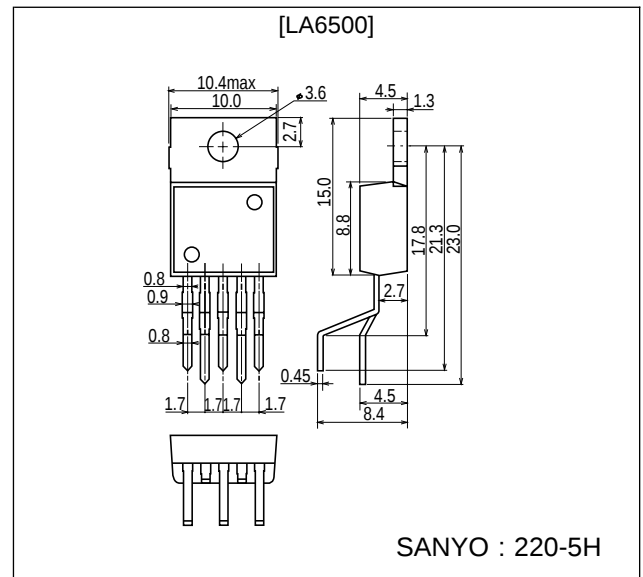


SANYO**LA6500****Power Operational Amplifier****Features**

- High output current ($I_{o\ max} = 1.0\ A$)
- 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}		± 18	V
Differential input voltage	V_{IDif}		30	V
Common-mode input voltage	V_{ICOM}		± 15	V
Output current	$I_{o\ max}$		1.0	A
Allowable power dissipation	$P_{d\ max}$		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	$R_L = 33\ \Omega$		± 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/ μs
Equivalent input noise voltage	V_{NI}	$R_g = 1\text{ k}\Omega$, DIN Audio		2		μV
Supply voltage rejection	SVR			30		$\mu\text{V/V}$
Limiting current	I_{SC}			1.00		A

Sample Application Circuit

