

No.2251B

2-Channel 10W AF Power Amn for Home Stereo, TV Use

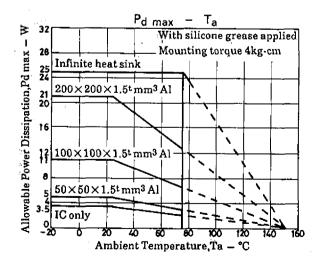
Features

- · High-power 2-channel AF power amp
- · Low distortion
- · Minimum number of external parts required (no bootstrap capacitor required)
- · Low pop noise at the time of power switch ON/OFF
- · Excellent ripple rejection (58dB typ)
- · Wide operating voltage range (10V to 40V)
- · External muting available
- · On-chip protector against abnormalities (thermal shutdown, overvoltage)

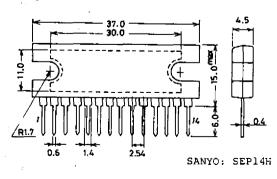
Maximum Ratings at Ta = 25°C Maximum Supply Voltage Maximum Output Current Allowable Power Dissipation Operating Temperature Storage Temperature	V _{CC} max Io peak Pd max Topr Tstg	Quiescent With heat sink	45 4 25 - 20 to + 75 40 to + 150	unit V A W °C °C
Operating Conditions at Ta = 25 Recommended Operating Voltage Recommended Load Resistance Operating Voltage Range	v_{cc}		32 8 10 to 40	unit V Ω V

Operating Characteristics at $Ta = 25^{\circ}C$, $V_{CC} = 32V$, $R_L = 8\Omega$, f = 1kHz, $R_S = 600\Omega$.

See specifie		ed Test Circuit.	min	typ	max	unit
Quiescent Current	Icco(1)	Quiescent	30	60	100	mA
	Icco (2)	MT/SW on	30	56	100	mA
Voltage Gain	\mathbf{VG}		38	40	42	dB
Voltage Gain Difference	ΔVG				1.5	dB
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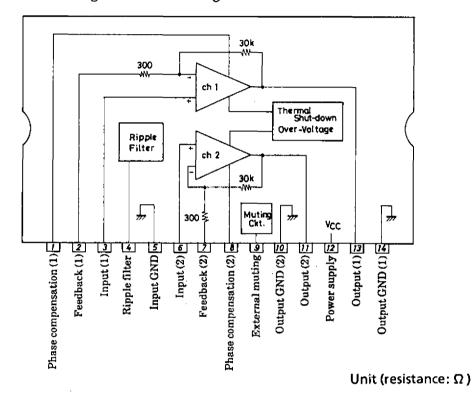


Package Dimensions 3023A-S14HIC (unit: mm)

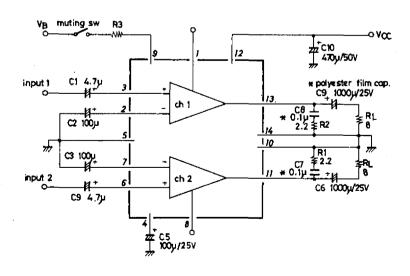


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Output Power	Po (1)	THD=1%	9.0	10.0		W
	Po (2)	THD=3%	10.0	11.5		W
Total Harmonic Distortion	THD	$P_0 = 2W$		0.05	0.20	%
Output Noise Voltage	V_{NO}	$Rg = 10k\Omega$, $BW = 20Hz$ to $20kHz$		0.25	1.0	mV
Ripple Rejection	SVRR	$Rg = 10k\Omega, f_R = 100Hz,$	45	58		dB
		$V_R = 0 dBm$				
Crosstalk	\mathbf{CT}	$Rg = 10k\Omega$	45	60		$d\mathbf{B}$
Muting	Vo (MT)	MT/SW on, Vi = -5dBm			-35	dBm

Equivalent Circuit Block Diagram and Pin Assignment



Sample Application Circuit



Unit (resistance: Ω , capacitance: F)

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