No.2717

LA4497, 4498

Monolithic Linear IC

Car Stereo-Use BTL-OCL 20W AF Power Amp

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Features

- High output
- Excellent ripple rejection
- Low pop noise at the time of power ON/OFF
- Pin compatible with LA4495, 4496

Functions

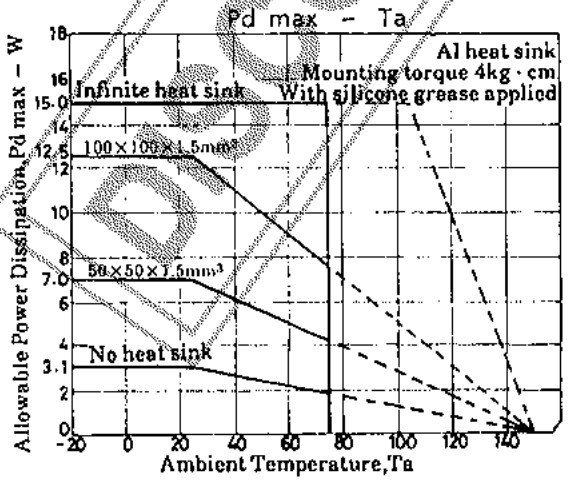
- On-chip standby circuit
- On-chip pop noise preventer (Starting time : 0.6 to 0.8sec.)
- Thermal shutdown circuit
- Overvoltage/surge protector
- On-chip output pin-to-GND short protector (with speaker protection)
- On-chip output pin-to-V_{CC} short protector (with speaker protection)
- On-chip load short protector

Maximum Ratings at Ta = 25°C

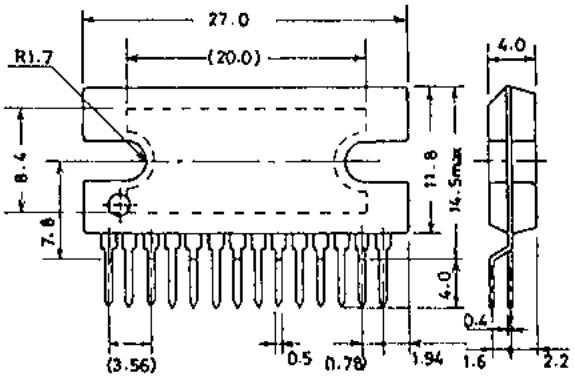
				unit
Maximum Supply Voltage	V_{CC} max1	Quiescent, t = 30sec	26	V
	V_{CC} max2	Quiescent	18	V
	V_{CC} max3	Operating	16	V
Surge Supply Voltage	V_{CC} surge	t ≦ 0.2sec, single giant pulse rise time 1msec	50	V
Output Current	I_O		4	A
Thermal Resistance	θj-c		3	°C/W
Junction Temperature	Tj		150	°C
Allowable Power Dissipation	Pd max		15	W
Operating Temperature	Topg		−20 to +75	°C
Storage Temperature	Tstg		−40 to +150	°C

Operating Conditions at Ta = 25°C

			unit
Recommended Supply Voltage	V_{CC}	13.2	V
Recommended Load Resistance	R_L	4	Ω



Case Outline 3113-S14HZ IC
(unit : mm)



SANYO: SIP14H2

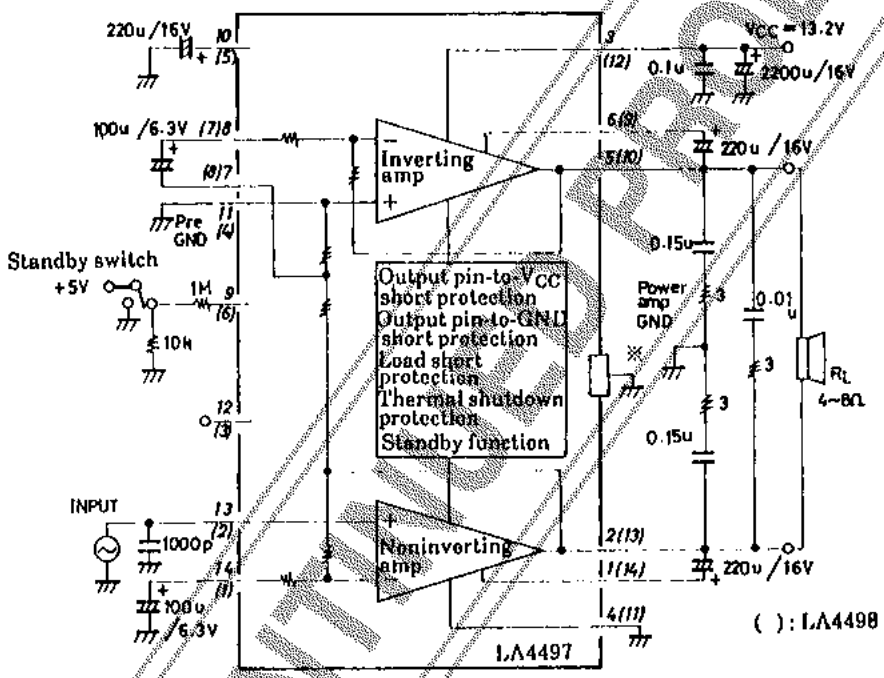
Specifications and information herein are subject to change without notice.

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Operating Characteristics at Ta = 25°C, V_{CC} = 13.2V, R_L = 4Ω, f = 1kHz, Rg = 600Ω, with 100×100×1.5mm³ Al heat sink, standby switch ON

			min	typ	max	unit
Quiescent Current	Icco		40	80	160	mA
Output Power	Po(1)	THD = 10%	16	20		W
	Po(2)	THD = 1%		14		W
Output Offset Voltage	Voff	Rg = open	−300		+300	mV
Voltage Gain	VG		44	46	48	dB
Total Harmonic Distortion	THD	Po = 1W		0.08		%
Input Resistance	ri		20	30	40	kΩ
Output Noise Voltage	V_{NO1}	Rg = 0, B.P.F. = 20Hz to 20kHz		0.2	0.4	mVrms
	V_{NO2}	Rg = 10kΩ, B.P.F. = 20Hz to 20kHz		0.4	0.8	mVrms
Ripple Rejection	Rr	Rg = 0, V_R = 0dBm, f_R = 100Hz	45	55		dB
Standby Current	Ist	Standby switch OFF		1.0	10	μA

Sample Application Circuit



Note : Connect the tab marked with ※ to large-signal GND.

The application circuit diagrams and circuit constants herein are included as an example and provide no guarantee for designing equipment to be mass produced.
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