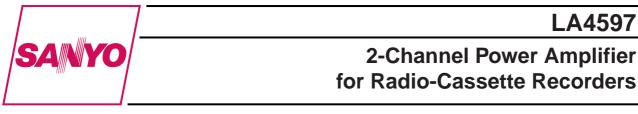
#### Ordering number:ENN2681B

Monolithic Linear IC

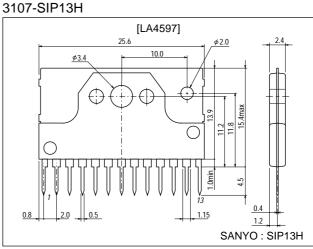


# **Functions**

- On-chip thermal shutdown circuit.
- On-chip standby switch.

## **Package Dimensions**

unit:mm



# **Specifications**

#### Absolute Maximum Ratings at $Ta = 25^{\circ}C$

Parameter	Symbol	Conditions	Ratings	Unit
Maximum supply voltage	V <sub>CC</sub> max	DataSheet4U.com	18	V
Allowable power dissipation	Pd max	With 100×100×1.5mm <sup>3</sup> AI heat sink	11.4	W
Operating temperature	Topr		-20 to +75	°C
Storage temperature	Tstg		-40 to +150	°C

### **Operating Conditions** at $Ta = 25^{\circ}C$

Parameter	Symbol	Conditions	Ratings	Unit
Recommended supply voltage	V <sub>CC</sub>		9, 12	V
Recommended load resistance	RL		3.2	Ω
Operating voltage range	V <sub>CC</sub> op		4.2 to 16.0	V

## **Operating Characteristics** at Ta = 25°C, $V_{CC}$ =9V, f=1kHz, Rg=600 $\Omega$ , R<sub>L</sub>=3.2 $\Omega$ , VG=50dB

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Quiescent current	Icco		10	20	40	mA
Voltage gain	VG		47	49	51	dB
Output power	P <sub>O</sub> 1	THD=10%	2.2	2.9		W
	P <sub>O</sub> 2	THD=10%, V <sub>CC</sub> =12V		4.6		W
Total harmonic distortion	THD	V <sub>O</sub> =2V		0.3	1.0	%
Input resistance	ri		20	30		kΩ
Continued on post no.						

Continued on next page.

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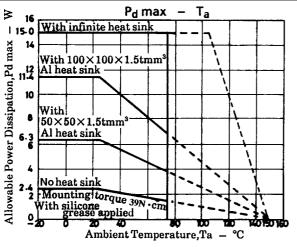
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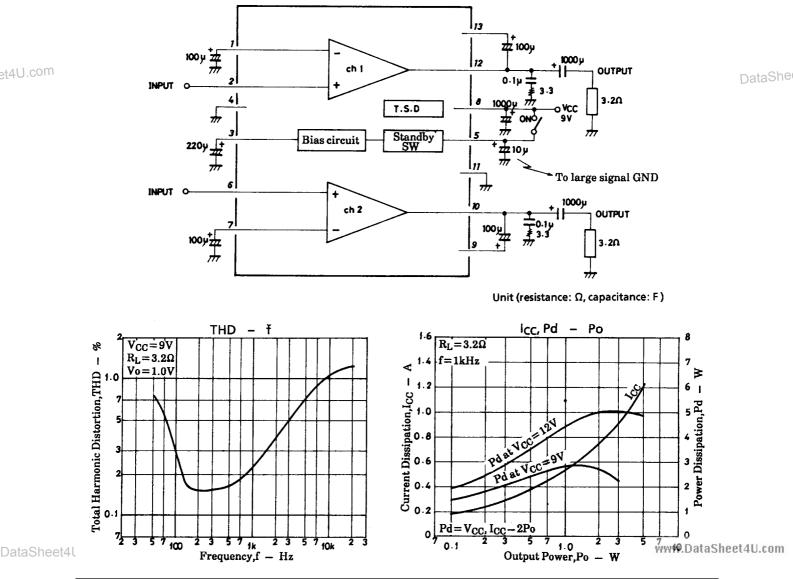
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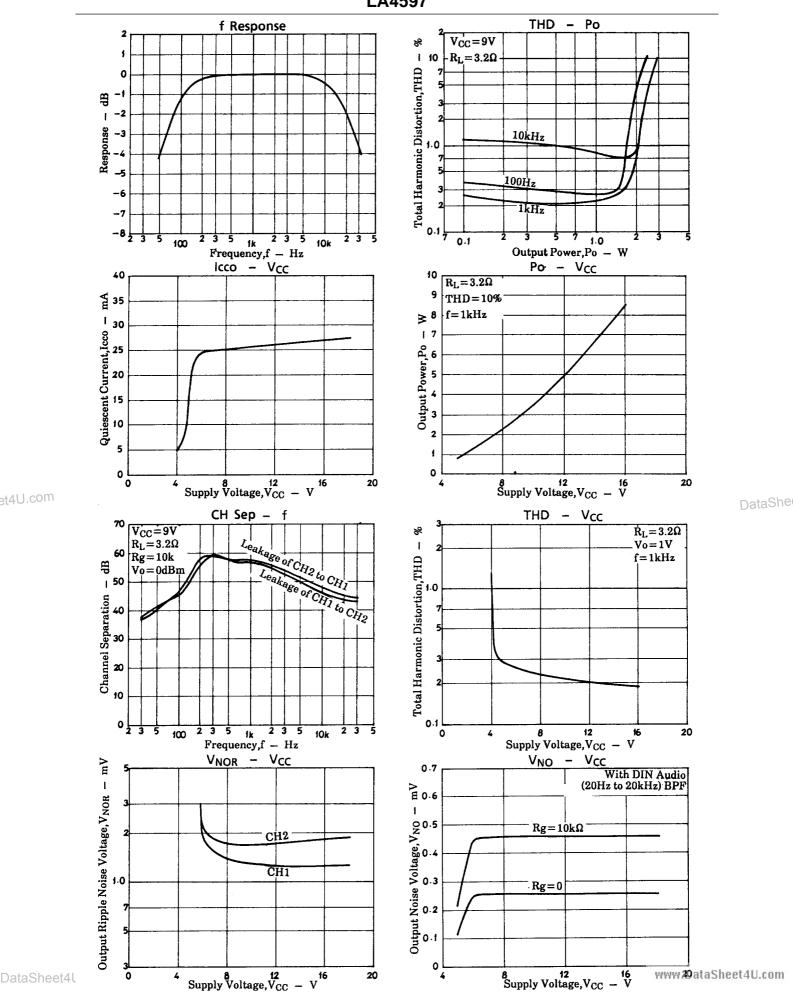
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Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Unit
Output noise voltage	V <sub>NO</sub> 1	Rg=0, BPF=20Hz to 20kHz		0.4	1.0	mV
	V <sub>NO</sub> 2	Rg=10kΩ, BPF.=20Hz to 20kHz		0.6	2.0	mV
Ripple rejection	Rr	Rg=0, fr=100Hz, V <sub>CC</sub> r=150mV	40	50		dB
Channel separation	CH Sep	Rg=10kΩ, Vo=0dBm	45	55		dB
Standby current	Isd				10	μΑ

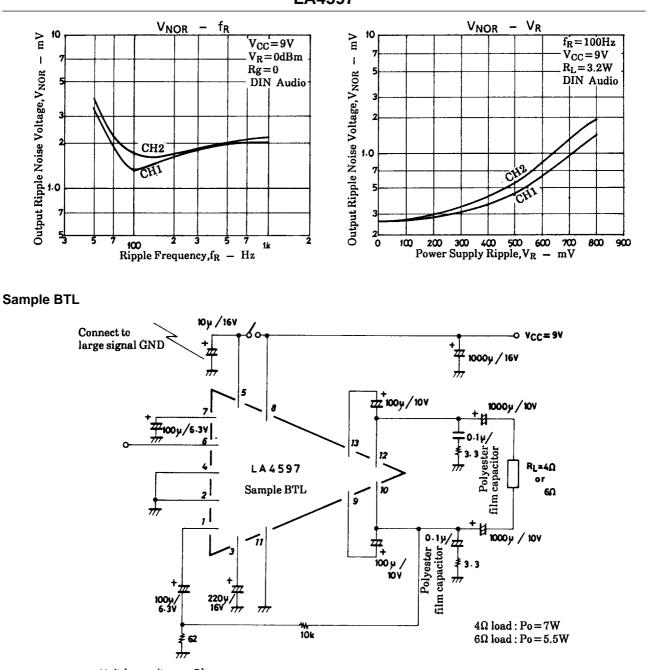


**Test Circuit and External Constants** 





LA4597



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Unit ( capacitance: F )

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LA4597

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