

Features

- Compact packaging supports slimmer set designs
- Series designed for 20 up to 200 W and pincompatibility
- Simpler heat sink design facilitates thermal design of slim stereo sets
- The pulse noises associated with turning the power on and off have been reduced by the adoption of fixed current circuits
- Supports addition of electronic circuits for thermal shutdown and load-short protection circuit as well as pop noise muting which occurs when the power supply switch is turned on and off

Specifications

Maximum Ratings at Ta = 25°C

Package Dimensions

unit: mm

4033



Parameter	Symbol Conditions		Ratings	Unit
Maximum supply voltage	V _{CC} max	· · · · · · · · · · · · · · · · · · ·	±38	V
Thermal resistance	θj-c		2.4	•C/W
Junction temperature	Tj		150	°C
Operating substrate temperature	Tc		125	℃
Storage temperature	Tstg		-30 to +125	°C
Available time for load shorted	ls*1	$V_{CC} = \pm 26 \text{ V}, \text{ R}_{\text{L}} = 8 \Omega, 1 = 50 \text{ Hz}, \text{ P}_{\text{O}} = 25 \text{ W}$	2	S

Recommended Operating Conditions Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Recommended supply voltage	V _{CC}		±26	V
Load resistance	RL		8	Ω

Operating Characteristics at Ta = 25°C, V_{CC} = ±26 V, R_L = 8 Ω , VG = 40 dB, Rg = 600 Ω , R_L (noninductive)

Parameter		Candificano	Ratings			Unit
	Symbol	Conditions	min	typ	max	
Quiescent current	l _{cco}	V _{CC} = ±30 V	10	20	50	mA
Output power	Po (1)	THD = 0.4%, f = 20 Hz to 20 kHz	25			W
	Po (2)	$V_{CC} = \pm 22 V$, THD = 1.0%, $R_L = 4 \Omega$, $f = 1 \text{ kHz}$	25			W
Total harmonic distortion	THD	P _O = 1.0 W, f = 1kHz			0.3	%
Frequency response	ι, i _H	$P_0 = 1.0 \text{ W}, \frac{+0}{-3} \text{ dB}$		20 to 50k		Hz
Input resistance	rì	P _O = 1.0 W, f = 1kHz		55		kΩ
Output noise voltage	V _{NO} *2	$V_{CC} = \pm 30 \text{ V}, \text{ Rg} = 10 \text{ k}\Omega$			1.2	mVrms
Neutral voltage	V _N	V _{CC} = ±30 V	-70	Ö	+70	mV

Note: Use rated power supply for test unless otherwise specified.

1. Use the transformer power supply shown on the next page when measuring the available time for load shorted and the output noise voltage.

2. Output noise voltage represents the peak value on the rms scale (VTVM). The noise voltage waveform does not include the pulse noise.

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Unit (resistance: Ω , capacitance: F)

Specified Transformer Power Supply (RP-25 equivalent)

Equivalent Circuit



Sample Application Circuit: 25 W min AF Power Amplifier

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Unit (resistance: Ω , capacitance: F)







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