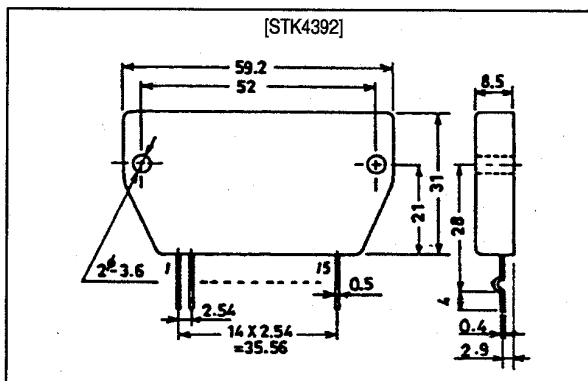


STK4392**SANYO****AF Power Amplifier
(15W + 15W min, THD = 1.0%)****Features**

- Small and slim package with 31mm height.
- Capable of guaranteeing substrate temperature 125°C, thereby reducing heat sink.
- Excellent cost performance.

Package Dimensionsunit: mm
4033**Specifications****Maximum Ratings** at $T_a = 25^\circ\text{C}$

Parameter	Symbol	Conditions	Ratings	Unit
Maximum supply voltage	$V_{CC \text{ max}}$	Pin 4 to 7, 12	56	V
Thermal resistance	θ_{j-c}	One power transistor	5	$^\circ\text{C/W}$
Junction temperature	T_j		150	$^\circ\text{C}$
Operating substrate temperature	T_c		125	$^\circ\text{C}$
Storage temperature	T_{stg}		-30 to +125	$^\circ\text{C}$
Available time for load short-circuit	t_s	$V_{CC} = 39\text{V}$, $R_L = 8\Omega$, $P_O = 15\text{W}$, $f = 50\text{Hz}$	2	s

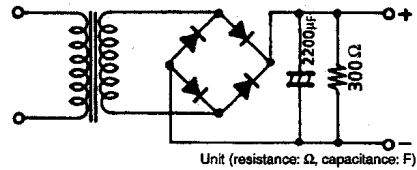
Recommended Operating Conditions at $T_a = 25^\circ\text{C}$

Parameter	Symbol	Conditions	Ratings	Unit
Recommended supply voltage	V_{CC}		39	V
Load resistance	R_L		8	Ω

Operating Characteristics at $T_a = 25^\circ\text{C}$, $V_{CC} = 39\text{V}$, $R_L = 8\Omega$, $R_g = 600\Omega$, $V_G = 40\text{dB}$, at specified test circuit (based on application circuit example).

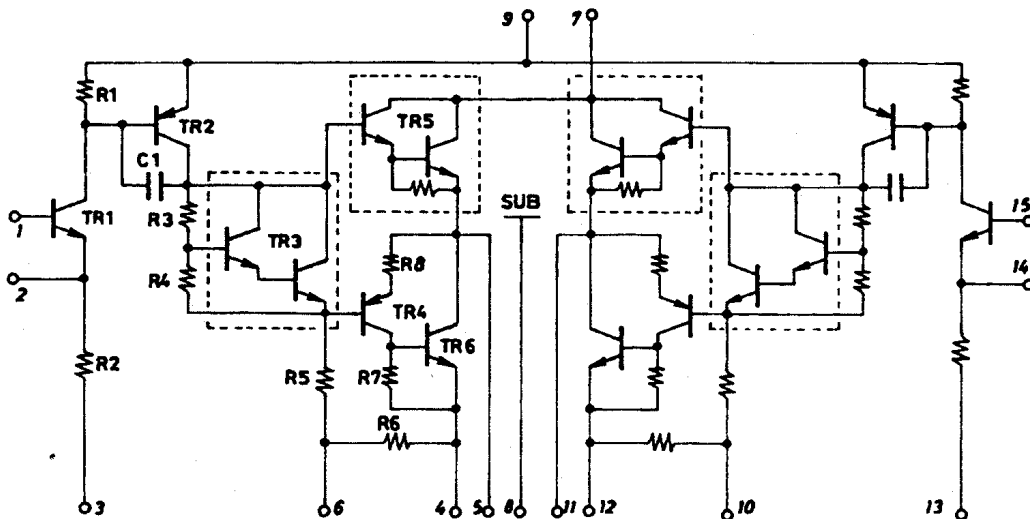
Parameter	Symbol	Conditions	min	typ	max	Unit
Quiescent current	I_{CCO}	$V_{CC} = 47\text{V}$	20	60	120	mA
Output power	$P_{O(1)}$	THD = 1.0%, $f = 1\text{kHz}$	15			W
	$P_{O(2)}$	THD = 1.0%, $f = 30\text{Hz to } 20\text{kHz}$	7.5			W
Total harmonic distortion	THD	$P_O = 0.1\text{W}$, $f = 1\text{kHz}$			0.3	%
Frequency characteristic	f_L, f_H	$P_O = 0.1\text{W}$, $+0$ -3 dB		20 to 100k		Hz
Input impedance	r_i	$P_O = 0.1\text{W}$, $f = 1\text{kHz}$		110k		Ω
Output noise voltage	V_{NO}	$V_{CC} = 47\text{V}$, $R_g = 10\text{k}\Omega$			0.8	mVrms

Notes. Unless otherwise specified for the power supply at the time of test, use the constant voltage power supply.
When testing the available time for load short-circuit, use the specified transformer as shown right.
The output noise voltage is the peak value on the mean value indicating rms reading (VTVM), and should not involve impulse noise.



Specified Transformer Power Supply
(Equivalent to RP-22)

Equivalent Circuit



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