

No.1297

## **STK4141** II

Thick Film Hybrid Integrated Circuit 2-CHANNEL 25W MIN AF POWER AMP.

## Features

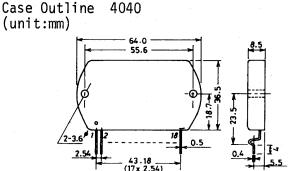
- . Smaller-sized package as compared with the STK450 series.
- . Built-in muting circuit to cut off various kinds of shock noise.
- . Greatly reduced heat sink due to case temperature 125°C guaranteed.
- . Excellent cost performance.

Maximum Ratings at Ta=25°C				unit
Maximum Supply Voltage	$V_{CC}$ max		±39	V
Thermal Resistance	θj-c		2.6	°C/W
Junction Temperature	Тj		150	°C
Operating Case Temperature	$T_{\mathbf{C}}$		125	°C
Storage Temperature	Tstq		-30 to +125	°C
Available Time for Load Shorted	ts	$V_{CC}$ =±26V, $R_L$ =80hm, f=50Hz, $P_O$ =25W	2	sec
Operating Conditions at Ta=25°C				unit
Recommended Operating Voltage	VCC		±26	V
Recommended Load Resistance	$R_{\mathbf{L}}$		8	ohm

Operating Characteristics at  $T_a=25$  °C, $V_{CC}=\pm26$ V, $R_L=8$ ohm, $R_g=600$ ohm, $V_G=40$ dB,at specified test circuit (based on Sample Application Circuit)

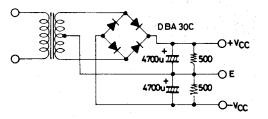
			mın	typ	max	unit
Quiescent Current	$I_{CCO}$	V <sub>CC</sub> =±31V	20	40	100	mA
Output Power	$P_{0}(1)$	THD=0.4%,f=20Hz to 20kHz	25			W
Total Harmonic	P <sub>O</sub> (2)	V <sub>CC</sub> =±22V,THD=1.0%,	25			
		$R_{L}=4ohm,f=1kHz$				
Total Harmonic Distortion	THD	Po=1.0W,f=1kHz			0.3	%
Frequency Characteristic	${ t f_L}$ , ${ t f_H}$	$P_0=1.0W,-3dB$	2	0 to 501	ς.	Hz
Input Resistance	$\mathtt{r_i}$	$P_0=1.0W, f=1kHz$		55		kohm
Output Noise Voltage	$v_{NO}$	V <sub>CC</sub> =±31V,Rg=10kohm			1.2	$mV_{rms}$
Middle Point Voltage	$v_N$	V <sub>CC</sub> =±31V	-70	0	70	mV
Muting Voltage	$v_{\mathbf{M}}$		-2	<del>-</del> 5	-10	V

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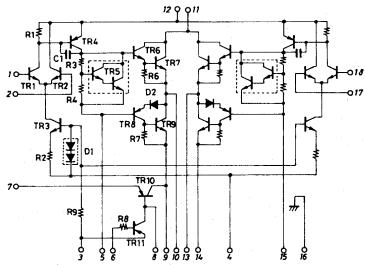
These specifications are subject to change without notice.

- Note) . For power supply at the time of test, use a constant-voltage power supply unless otherwise specified.
  - . For measurement of the available time for load shorted and output noise voltage, use the specified transformer power supply shown right.
  - . The output noise voltage is the peak value on rms scale (VTVM) of average value indicating type. For AC power supply use an AC stabilized power supply (50Hz) to eliminate the effect of flicker noise in AC primary line.



Specified transformer power supply (Equivalent to SANSUI RP-25)

## Equivalent Circuit



Sample Application Circuit: 25W min 2-channel AF power amp.

