

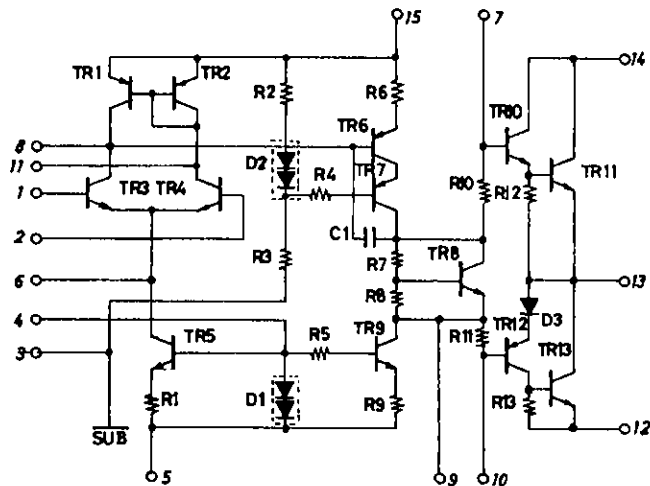


## STK4036X

**Operating Characteristics** at  $T_a = 25^\circ\text{C}$ ,  $V_{CC} = \pm 36.5\text{V}$ ,  $R_L = 8\Omega$  (noninductive load),  $f = 1\text{kHz}$ ,  $R_g = 600\Omega$ , 100kHz-LPF on

Parameter	Symbol	Conditions	min	typ	max	Unit
Quiescent current	$I_{CCO}$	$V_{CC} = \pm 42\text{V}$	15	-	120	mA
Output power	$P_{O(1)}$	$f = 20\text{Hz to } 20\text{kHz}$ , THD = 0.008%	50	-	-	W
	$P_{O(2)}$	$V_{CC} = \pm 31.5\text{V}$ , THD = 0.04%, $R_L = 4\Omega$	55	-	-	W
Total harmonic distortion	THD	$P_O = 1.0\text{W}$	-	-	0.008	%
Frequency response	$f_L, f_H$	$P_O = 1.0\text{W}$ , $-3\text{ dB}$	-	20 to 50k	-	Hz
Input impedance	$r_i$	$P_O = 1.0\text{W}$	-	55	-	k $\Omega$
Output noise voltage	$V_{NO}^{**}$	$V_{CC} = \pm 42\text{V}$ , $R_g = 10\text{k}\Omega$	-	-	1.2	mVrms
Neutral voltage	$V_N$	$V_{CC} = \pm 42\text{V}$	-70	0	+70	mV

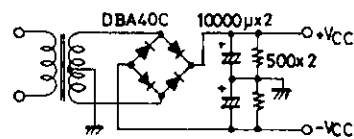
### Equivalent Circuit



Note: For Power supply at the time of test, use a constant-voltage power supply unless otherwise specified.

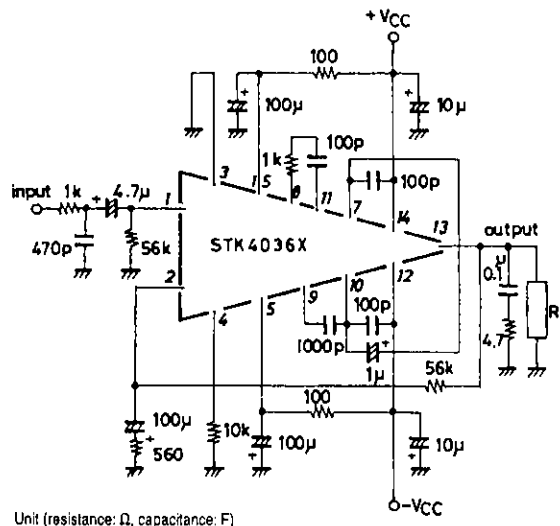
\* For measurement of the available time for load short-circuit and output noise voltage, use the specified transformer power supply shown below.

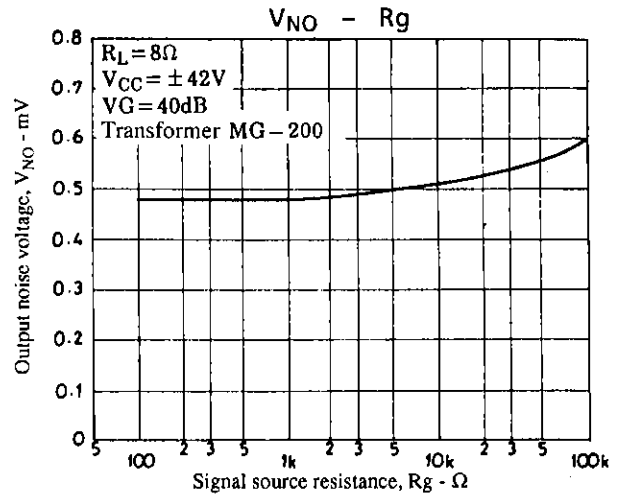
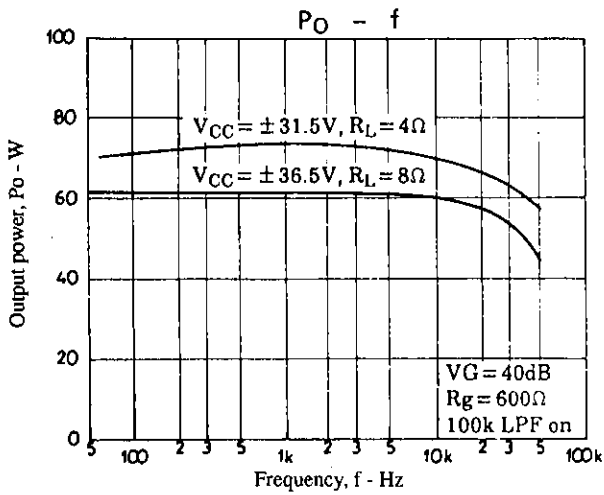
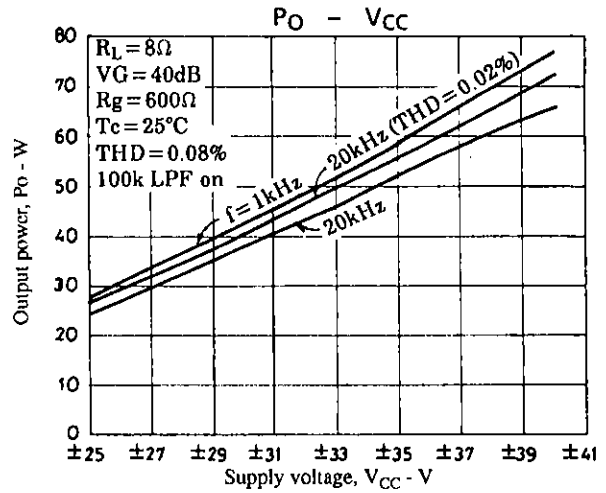
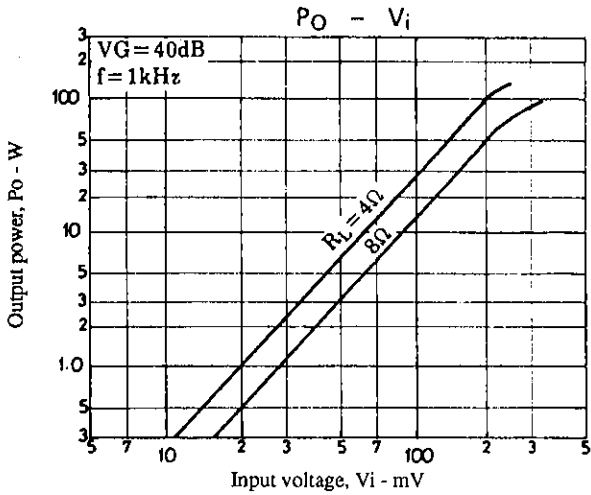
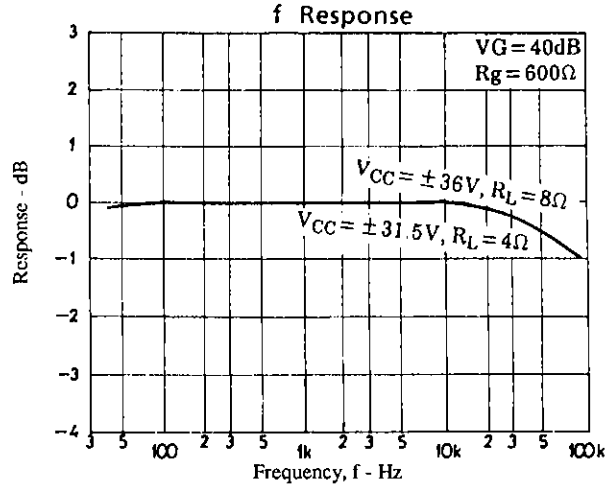
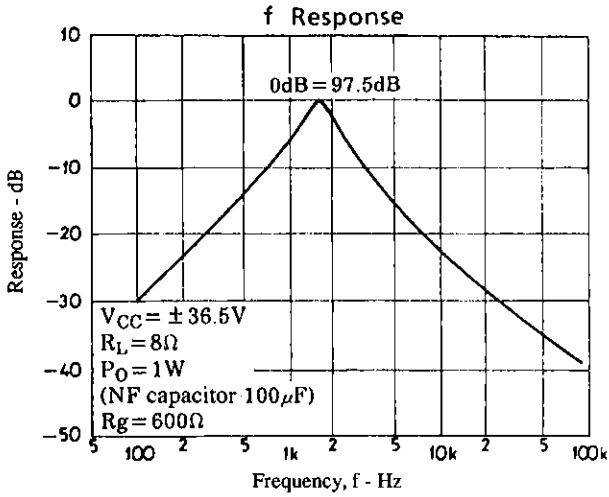
\*\* The output noise voltage is represented by the peak value on rms scale (VTVM) of average value indicating type. The noise voltage waveform includes no flicker noise.

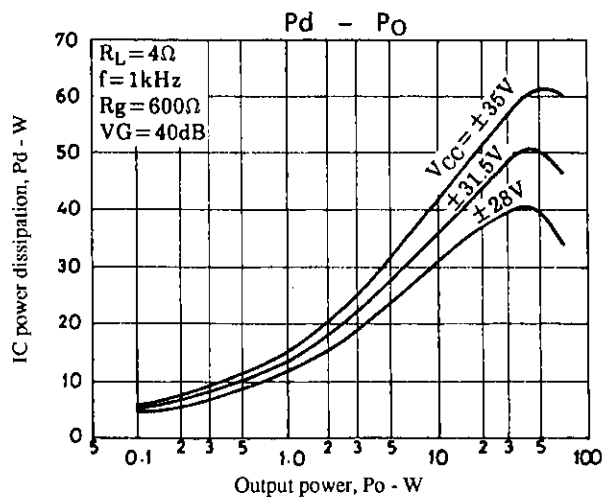
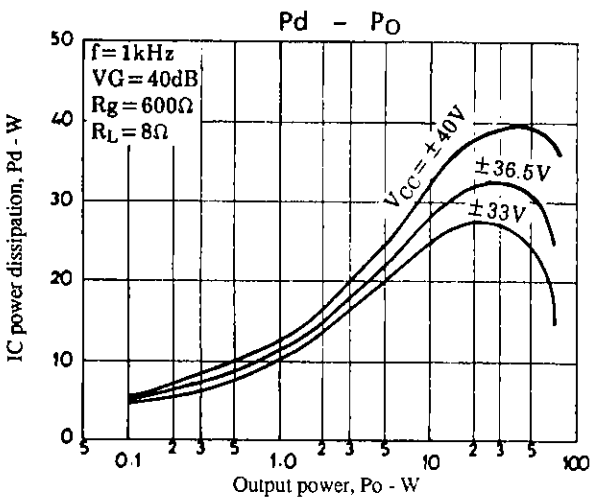
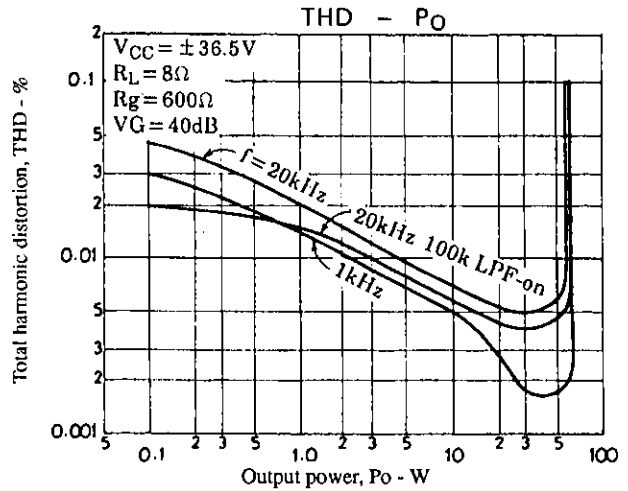
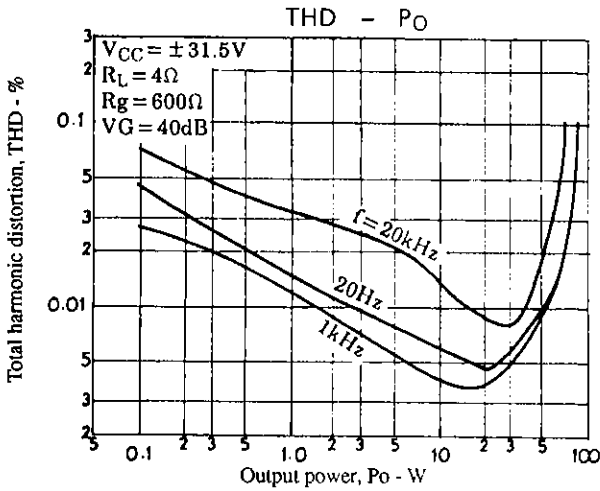
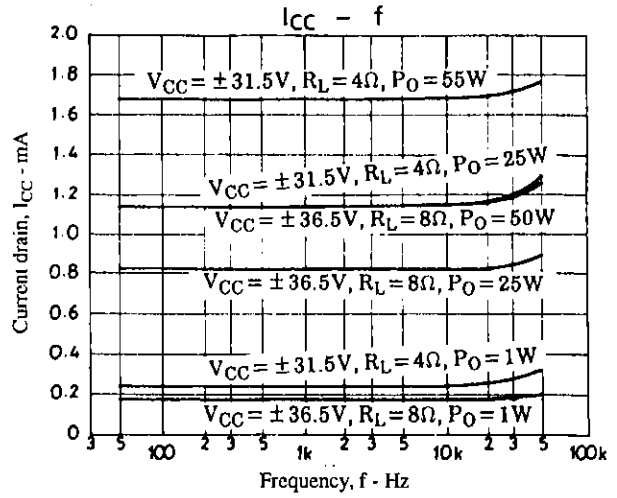
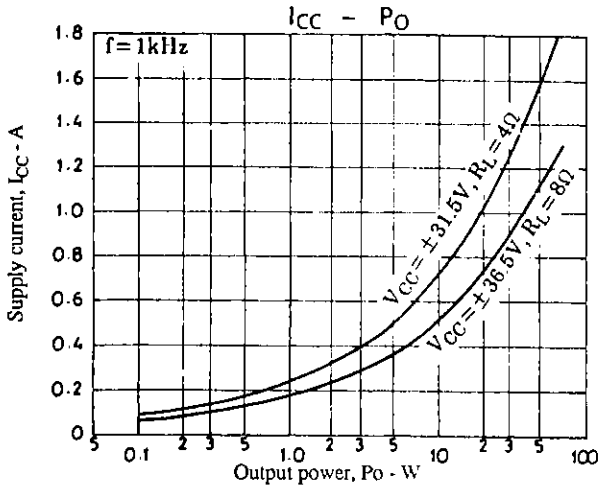


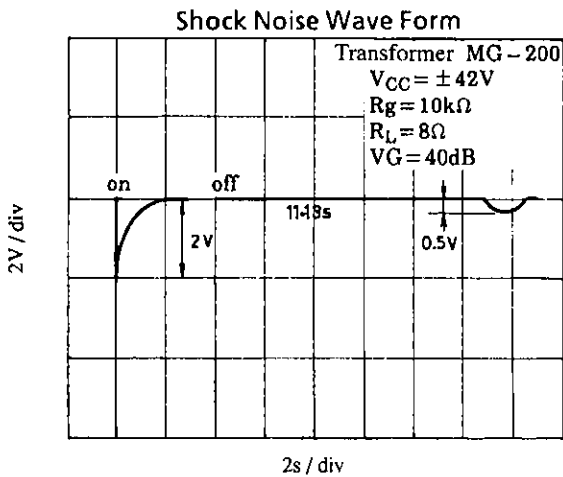
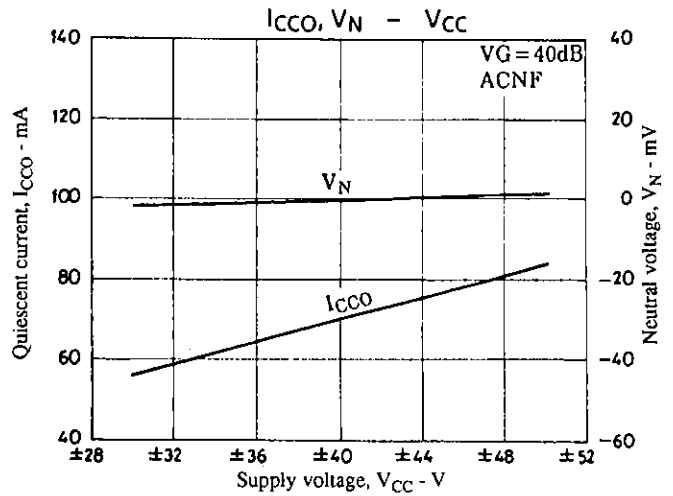
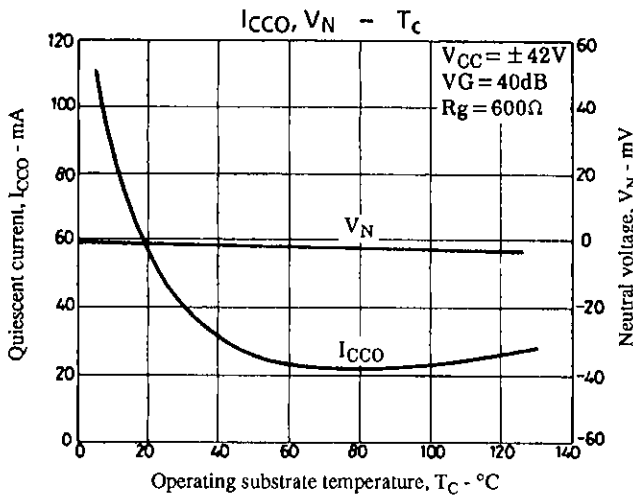
Specified Transformer Power Supply  
(Equivalent to MG-200)

### Sample Application Circuit: 50W min AF Power Amplifier









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