

UNDER DEVELOPMENT

Audio Power Amplifier IC TK10566M

DESCRIPTION

The TK10566M is audio amplifier capable of low voltage operation for dynamic-speaker driver.

The coupling capacitors to the speaker are not required, because of differential output configuration.

The differential gain is set by two external resistors.

Current consumption can be decreased by the stand-by function.

FEATURES

■ Low Voltage Operation Available. $V_{CC}=1.8 \sim 6.0V$

■ Low Current Consumption.

$$I_{CC}=5mA \quad (V_{CC}=3.3V, R_L=\infty)$$

■ Stand-by Function Available.

$$I_{CCS}=20\mu A \quad (V_{CC}=3.3V)$$

■ Maxim Output Power.

$$380mW \quad (V_{CC}=3.3V, R_L=8\Omega)$$

■ Differential Gain is set by two external resistance.

APPLICATIONS

■ Notebook Computers , Recivers.

■ Battery Powered Small Portable Equipments.

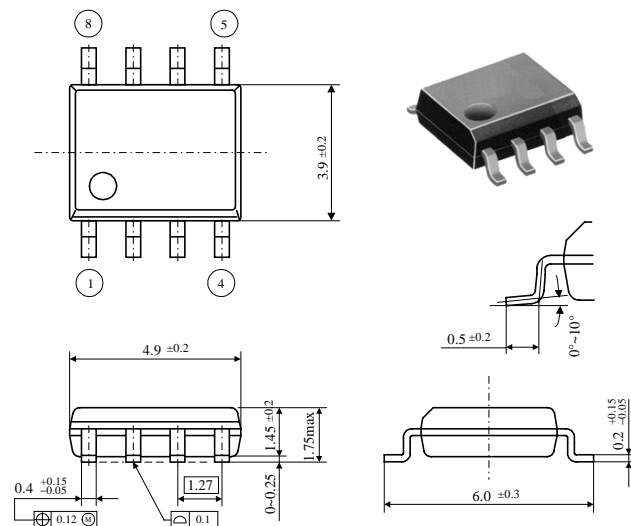
ELECTRICAL CHARACTERISTICS

Conditions : $V_{CC}=3.3V$, $f_{in}=1kHz$, $R_L=8\Omega$

Parameter	Symbol	Value (Typ)	Units
Operation Voltage Range	V_{CC}	1.8 ~ 6.0	V
Supply Current	I_{CC}	5.0 ($R_L=\infty$)	mA
Maximum Output Power	P_{out}	380 ($THD \leq 10\%$)	mW
Total Harmonic Distortion 1	THD1	0.4 ($R_L=\infty$)	%
Total Harmonic Distortion 2	THD2	0.8 ($R_L=8\Omega$)	%
Stand-by Current	I_{CCS}	20	μA

PACKAGE OUTLINE

■ SOP-8



Unit : mm

BLOCK DIAGRAM

