DUAL HIGH CURRENT OPERATIONNAL AMPLIFIER—YD3414

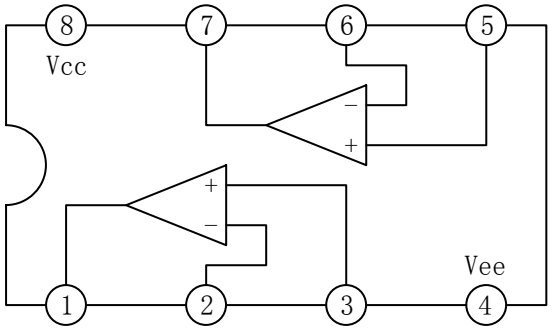
DESCRIPTION

The YD3414 integrated circuit is a high gain, high output current, high output voltage swing dual operational amplifier capable of driving 70mA.

FEATURES

*Single Supply.
*Operating Voltage (+3V～+15V).
*High Output Current (70mA).
*Slew Rate (1.0V/μm typ).
*Package Outline： DIP8, SOP8.
*Bipolar Technology.

BLOCK DIAGRAM



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ABSOLUTE MAXIMUM RATINGS (Tamb=25℃)

PARAMETER	SYMBOL	VALUE	UNIT
Supply Voltage	Vcc	±7.5 or 15	V
Differential Input Voltage	V_{ID}	15	V
Input Voltage	V_{IC}	-0.3～15	V
Power Dissipation（DIP8）	P_{D1}	500	mW
Power Dissipation（SOP8）	P_{D2}	250	mW
Operating temperature	T_{opr}	-20～75	℃
Storage Temperature	T_{stg}	-40～150	℃

ELECTRICAL CHARACTERISTICS

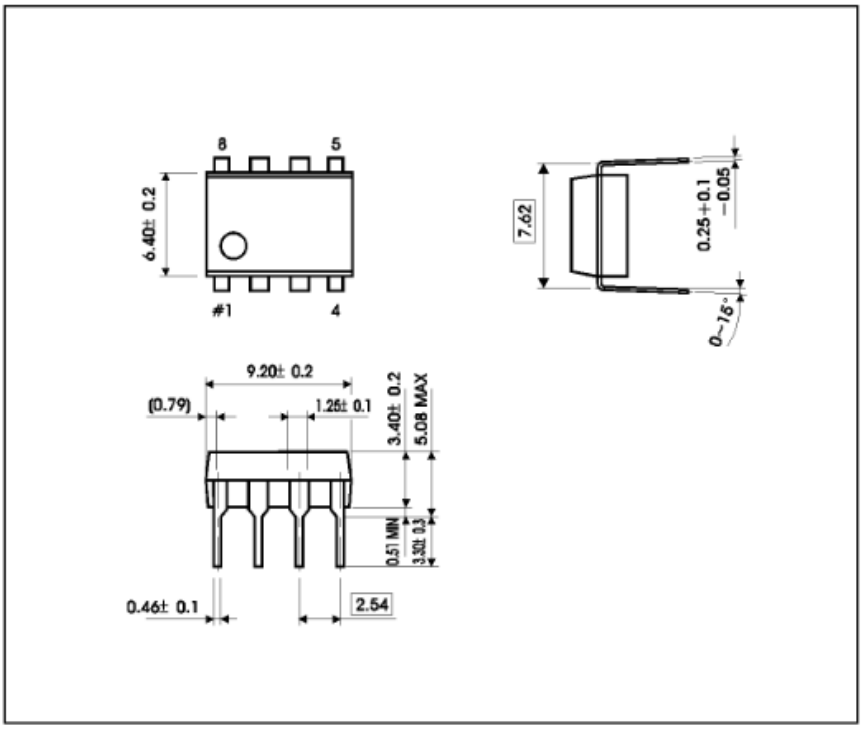
（V_{CC}=8.6V, Vee=0V, Tamb=25℃, Unless otherwise specified）

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Input Offset Voltage	V_{IO}	Rs=0Ω		2	5	mV
Input Offset Current	I_{IO}			5	100	nA
Input Bias Current	I_{IB}			100	500	nA
Large Signal Voltage Gain	Av	R_L=2kΩ	88	100		dB
Input Common Voltage Range	V_{ICM}		Vcc-2			V
Maximum Output Voltage Swing 1	V_{OM1}	R_L>=10kΩ, V+=5V	3.5			V
Maximum Output Voltage Swing 2	V_{OM2}	R_L=2 kΩ, V+=5V	3.2			V
Common Mode Rejection Ratio	K_{CMR}		80	90		dB
Supply Voltage Rejection Ratio	K_{SVR}		80	90		dB
Operating Current	Icc	R_L=∞	3	4	5	mA
Slew Rate	SR	A_V=1，R_L=2kΩ		1.0		V/μS
Gain Bandwidth Protect	BW			1.3		MHz
Operating Voltage Range	Vcc				15	V

OUTLINE DRAWING

DIP-8

unit:mm



SOP-8

unit:mm