

DUAL POWER OPERATIONAL AMPLIFIER

ENGINEERING DATA

FEATURES:

- * ± 1.0 Amp Output
- * 3 V/uSec Slew Rate
- * 7 MHz Gain-Bandwidth
- * 50 nA Bias Current
- * 2 mV Offset Voltage

ABSOLUTE MAXIMUM RATINGS:

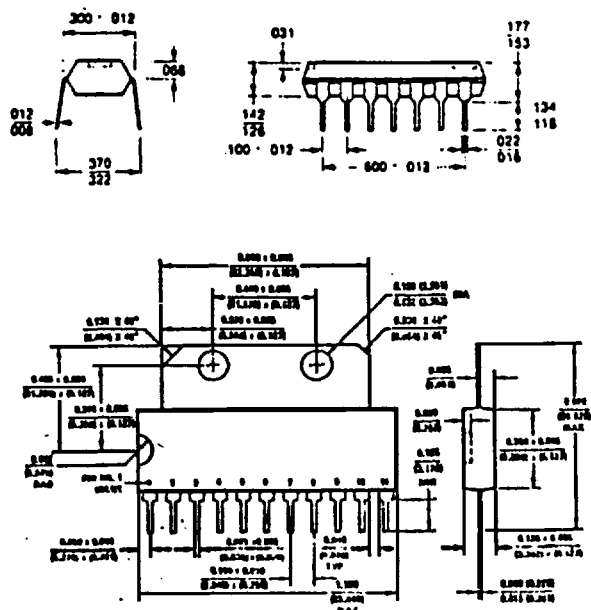
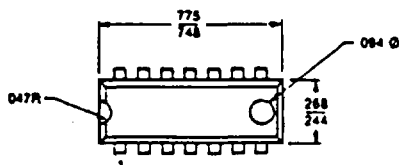
Supply Voltage	32 Volts
Diff. Input Voltage	0.5 Volts
Output Current	1.3 Amps
Opr. Temp. Range	0°C to +70°C

TYPICAL SPECIFICATIONS:

[VS = ± 15 Volts, TA = +25°C]

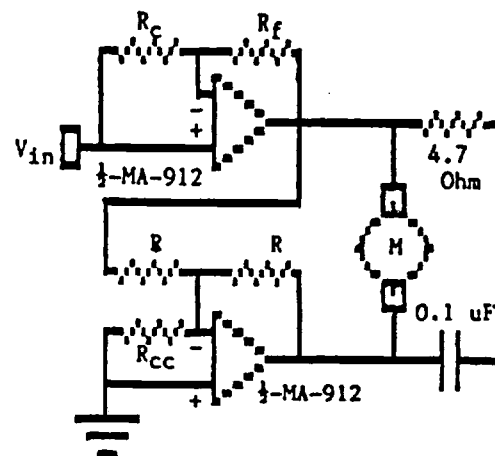
Input Offset Voltage	2 mV
Input Bias Current	50 nA
Input Offset Current	10 nA
Common Mode Voltage	13.5 V
Common Mode Rejection	90 dB
Open Loop Gain at DC	110 dB
Gain-Bandwidth Product	7 MHz
Slewing Rate	$\pm$ V/uS
Output Voltage Swing	
(RL = 2k)	± 13.5 V
(RL = 10 ohm)	± 10 V
Output Current Limit	1.3 A

PACKAGING:



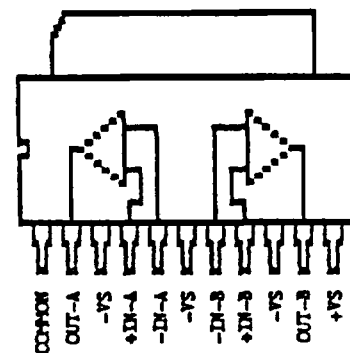
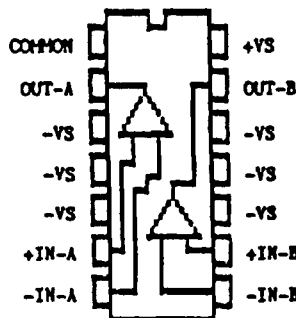
DESCRIPTION: The MA-912 is a monolithic integrated circuit dual operational amplifier. Ideal for bridge-driving motors, actuators, heaters, lamps, etc. types of loads. Packaging is available in either a standard 14 pin DIP or an 11 pin SIP with heat tab for increased thermal dissipation.

TYPICAL APPLICATION: The MA-912 is used in an inverting and a non-inverting configuration. The inverting circuit is at unity gain to form a complimentary drive at the load.



$$\text{Motor Voltage, } V_M = 2 \cdot V_{in}$$

$$R_c = R_f / 10 \quad R_{cc} = R / 10$$



NOTE: ALL 3 -VS pins must be connected to -VS.