

# μA741

## FREQUENCY-COMPENSATED OPERATIONAL AMPLIFIER

### FAIRCHILD LINEAR INTEGRATED CIRCUITS

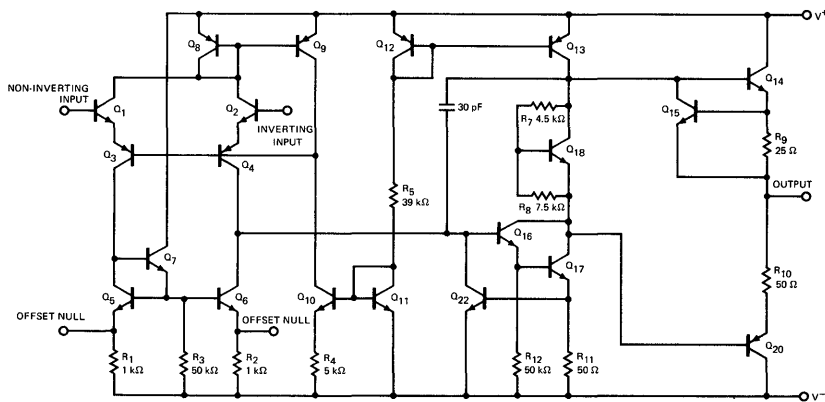
**GENERAL DESCRIPTION** — The μA741 is a high performance monolithic Operational Amplifier constructed using the Fairchild Planar\* epitaxial process. It is intended for a wide range of analog applications. High common mode voltage range and absence of "latch-up" tendencies make the μA741 ideal for use as a voltage follower. The high gain and wide range of operating voltage provides superior performance in integrator, summing amplifier, and general feedback applications.

- NO FREQUENCY COMPENSATION REQUIRED
- SHORT CIRCUIT PROTECTION
- OFFSET VOLTAGE NULL CAPABILITY
- LARGE COMMON-MODE AND DIFFERENTIAL VOLTAGE RANGES
- LOW POWER CONSUMPTION
- NO LATCH UP

#### ABSOLUTE MAXIMUM RATINGS

Supply Voltage	
Military (741)	±22 V
Commercial (741C)	±18 V
Internal Power Dissipation (Note 1)	
Metal Can	500 mW
DIP	670 mW
Mini DIP	310 mW
Flatpak	570 mW
Differential Input Voltage	±30 V
Input Voltage (Note 2)	±15 V
Storage Temperature Range	
Metal Can, DIP, and Flatpak	−65°C to +150°C
Mini DIP	−55°C to +125°C
Operating Temperature Range	
Military (741)	−55°C to +125°C
Commercial (741C)	0°C to +70°C
Lead Temperature (Soldering)	
Metal Can, DIP, and Flatpak (60 seconds)	300°C
Mini DIP (10 seconds)	260°C
Output Short Circuit Duration (Note 3)	Indefinite

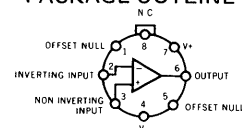
#### EQUIVALENT CIRCUIT



Notes on following pages.

#### CONNECTION DIAGRAMS

##### 8-LEAD METAL CAN (TOP VIEW) PACKAGE OUTLINE 5B

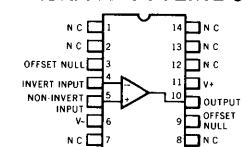


Note: Pin 4 connected to case

#### ORDER INFORMATION

TYPE	PART NO.
741	741HM
741C	741HC

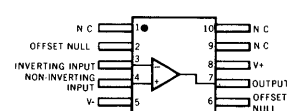
##### 14-LEAD DIP (TOP VIEW) PACKAGE OUTLINE 6A



#### ORDER INFORMATION

TYPE	PART NO.
741	741DM
741C	741DC

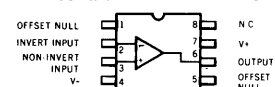
##### 10-LEAD FLATPAK (TOP VIEW) PACKAGE OUTLINE 3F



#### ORDER INFORMATION

TYPE	PART NO.
741	741FM

##### 8-LEAD MINIDIP (TOP VIEW) PACKAGE OUTLINE 9T



#### ORDER INFORMATION

TYPE	PART NO.
741C	741TC

\*Planar is a patented Fairchild process.