

μ A741 Frequency Compensated Operational Amplifier

GENERAL DESCRIPTION

The μ A741 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 μ A741 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.

FEATURES

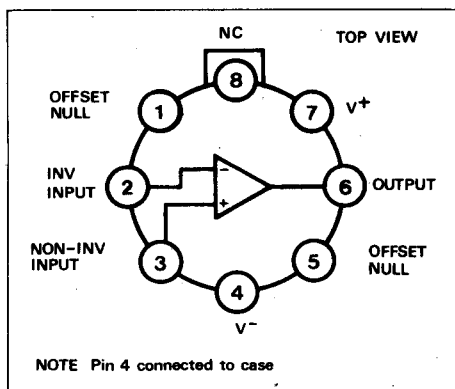
- No frequency compensation required.
- Short circuit protection.
- Offset voltage null capability.
- Large common-mode and differential voltage ranges.
- Low power consumption.
- No latch up.

ABSOLUTE MAXIMUM RATINGS

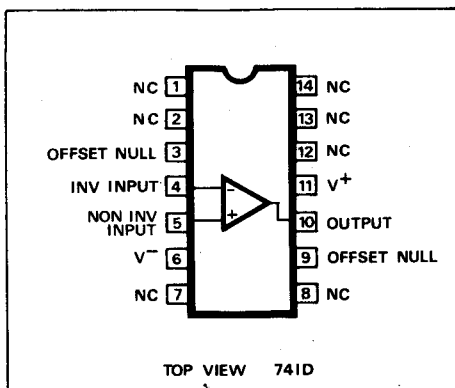
Supply voltage			
Military (741)		$\pm 22V$	
Commercial (741C)		$\pm 18V$	
Internal power dissipation			
Metal can		500mW	
DIP		670mW	
Mini DIP		310mW	
Flatpak		570mW	
Differential input voltage		$\pm 30V$	
Input voltage		$\pm 15V$	
Storage temperature range			
Metal can, DIP		$-65^{\circ}C$ to $+150^{\circ}C$	
Mini DIP		$-55^{\circ}C$ to $+125^{\circ}C$	
Operating temperature range			
Military (741)		$-55^{\circ}C$ to $+125^{\circ}C$	
Commercial (741C)		$0^{\circ}C$ to $+70^{\circ}C$	
Lead temperature (soldering)			
Metal can, DIP (60 seconds)		$300^{\circ}C$	
Mini DIP (10 seconds)		$260^{\circ}C$	
Output short circuit duration (Note 3)			Indefinite
REFERENCE TABLE			
Code	Stock No.	Code	Stock No.
741ADM*	35825F	741EHC*	35830A
741AHM*	35826D	741HC	35831X
741DC	35827B	741HM	35832H
741DM	35828X	741PC	35833F
741EDC*	35829R	741TC	35834D

*Data available on request.

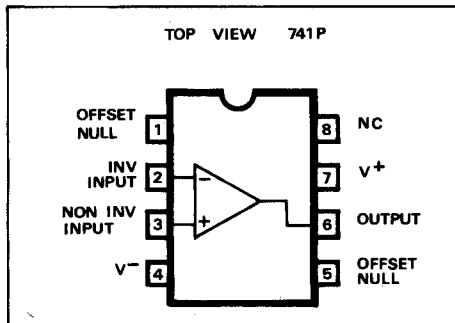
CONNECTION DIAGRAMS



See outline drawing No. 131 for dimensions.



See outline drawing No. 97 for dimensions.



See outline drawing No. 132 for dimensions.

MANUFACTURER'S CURRENT LIST PRICES ARE ALWAYS CHARGED