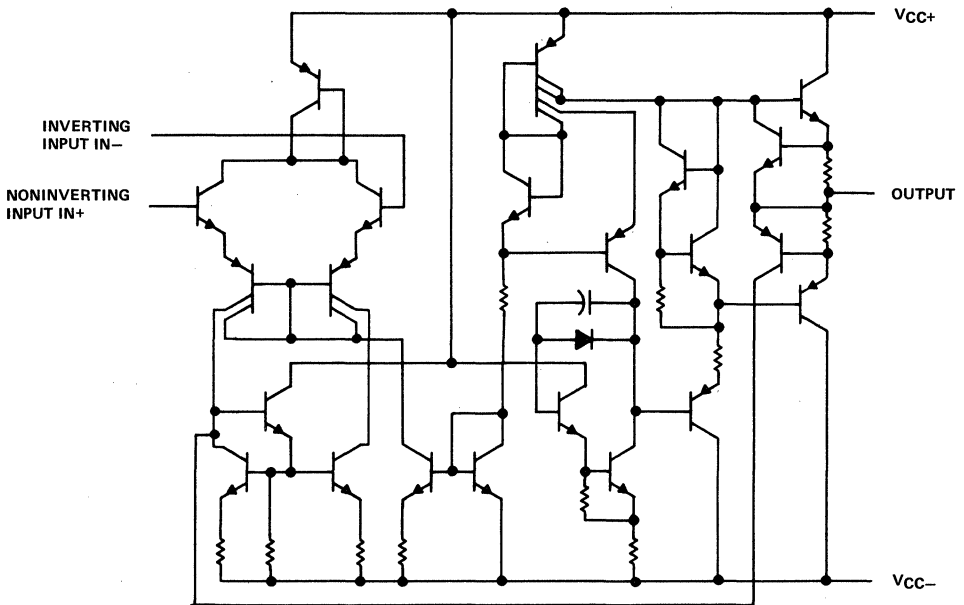


# TYPES $\mu$ A741M, $\mu$ A741C

## GENERAL-PURPOSE OPERATIONAL AMPLIFIERS

schematic



Operational Amplifiers

absolute maximum ratings over operating free-air temperature range (unless otherwise noted)

	$\mu$ A741M	$\mu$ A741C	UNIT
Supply voltage $V_{CC+}$ (see Note 1)	22	18	V
Supply voltage $V_{CC-}$ (see Note 1)	-22	-18	V
Differential input voltage (see Note 2)	$\pm 30$	$\pm 30$	V
Input voltage any input (see Notes 1 and 3)	$\pm 15$	$\pm 15$	V
Voltage between either offset null terminal (N1/N2) and $V_{CC-}$	$\pm 0.5$	$\pm 0.5$	V
Duration of output short-circuit (see Note 4)	unlimited	unlimited	
Continuous total power dissipation at (or below) 25°C free-air temperature (see Note 5)	500	500	mW
Operating free-air temperature range	-55 to 125	0 to 70	°C
Storage temperature range	-65 to 150	-65 to 150	°C
Lead temperature 1,6 mm (1/16 inch) from case for 60 seconds FH, FK, J, JG, or U package	300	300	°C
Lead temperature 1,6 mm (1/16 inch) from case for 10 seconds D, N or P package		260	°C

- NOTES: 1. All voltage values, unless otherwise noted, are with respect to the midpoint between  $V_{CC+}$  and  $V_{CC-}$ .
2. Differential voltages are at the noninverting input terminal with respect to the inverting input terminal.
3. The magnitude of the input voltage must never exceed the magnitude of the supply voltage or 15 volts, whichever is less.
4. The output may be shorted to ground or either power supply. For the  $\mu$ A741M only, the unlimited duration of the short-circuit applies at (or below) 125°C case temperature or 75°C free-air temperature.
5. For operation above 25°C free-air temperature, refer to Dissipation Derating Curves, Section 2. In the J and JG packages,  $\mu$ A741M chips are alloy mounted;  $\mu$ A741C chips are glass mounted.