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external negative feedback it consists of 8 pins and it has only one op amp inside the main function of the 741 op amp ic is to do the mathematical operations in various circuits 2 specifications of ic 741 op amp some of its basic specifications are power supply it can handle a voltage of 5v while the maximum can go up to 18v output impedance approximately 75Ω input impedance approximately $300\text{ k}\Omega$ to $2\text{ m}\Omega$ megohms voltage gain can be 20000 to 200000 in cases of low frequencies 20 or 200v mv learn about the ic 741 op amp a general purpose operational amplifier that can perform mathematical operations in analog circuits see its pin diagram internal circuit specifications and applications with examples the 741 op amp is one of the most famous and popular ics 1 with hundreds of millions sold since its invention in 1968 by famous ic designer dave fullagar in this article i look at the silicon die for the 741 discuss how it works and explain how circuits are built from silicon the 741 op amp packaged in a to 99 metal can 741 classification applications historical timeline see also notes references further reading external links operational amplifier an operational amplifier often op amp or opamp is a dc coupled electronic voltage amplifier with a differential input a usually single ended output 1 and an extremely high gain the lm741 series are general purpose operational amplifiers which feature improved performance over industry standards like the lm709 it is intended for a wide range of analog applications the high gain and wide range of operating voltage provide superior performance in integrator summing amplifier and general feedback applications features

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