



TM

Seismo-Quake

LET IT SHAKE !

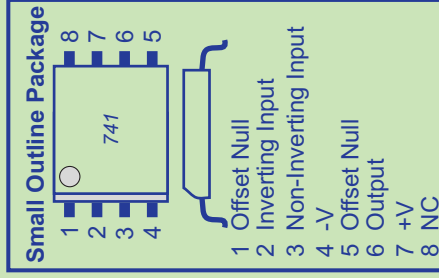
Educational

Technological

Innovative

Electronic

741



The 741 operational amplifier offers overload protection on the input and output, no oscillations, no latch-up when common mode range is exceeded.

Datasheet for the 741 General Purpose Operational Amplifier

Parameter	Symbol	Min	Typ	Max	Unit
Input Offset Voltage $T_A = 25^\circ\text{C}$, $R_S \leq 10\text{k Ohm}$			2.0	6.0	mV
Input Offset Current $T_A = 25^\circ\text{C}$			20.0	200.0	nA
Input Bias Current $T_A = 25^\circ\text{C}$			80.0	500.0	nA
Input Resistance $T_A = 25^\circ\text{C}$, $V_S = \pm 20\text{V}$		0.3	2.0		M Ω
Input Voltage Range $T_A = 25^\circ\text{C}$		± 12	± 13		V
Large Signal Voltage Gain $T_A = 25^\circ\text{C}$		20	200		V/mV
Output Voltage Swing $V_S = \pm 15\text{V}$, $R_L \geq 2\text{K Ohm}$		± 10	± 13		V
Output Short Circuit Current $T_A = 25^\circ\text{C}$			25		mA
Common-Mode Rejection Ratio $R_S \leq 10\text{K Ohm}$, $V_{CM} = \pm 12\text{V}$		70	90		dB
Supply Voltage Rejection $V_S = \pm 20\text{V}$ to $V_S = \pm 5\text{V}$, $R_S \leq 10\text{K Ohm}$		77	96		dB
Slew Rate $T_A = 25^\circ\text{C}$			0.5		V/ μs
Supply Current $T_A = 25^\circ\text{C}$			1.7	2.8	mA
Power Dissipation $T_A = 25^\circ\text{C}$, $V_S = \pm 15\text{V}$			50	85	mW
Thermal Resistance, Junction to Ambient	$R_{\theta JA}$			195	$^\circ\text{C/W}$