

产品概览

MC33171: Operational Amplifier, Single Supply 3.0 V to 44 V, Low Power, Single

欲看完整文档，请参阅数据表。

Quality bipolar fabrication with innovative design concepts are employed for the MC33171/72/74 series of monolithic op-amps. These devices operate at 180 A per amplifier and offer 1.8 MHz of gain bandwidth product and 2.1 V/s slew rate without the use of JFET device technology. Although this series can be operated from split supplies, it is particularly suited for single supply operation, since the common mode input voltage includes ground potential (VEE). With a Darlington input stage, these devices exhibit high input resistance, low input offset voltage and high gain. The all NPN output stage, characterized by no deadband crossover distortion and large output voltage swing, provides high capacitance drive capability, excellent phase and gain margins, low open loop high frequency output impedance and symmetrical source/sink AC frequency response. The MC33171/72/74 are specified over the industrial / automotive temperature ranges. The complete series of single, dual and quad op-amps are available in plastic as well as the surface mount packages.

特性

- Low Supply Current: 180 μ A (Per Amplifier)
- Wide Supply Operating Range: 3.0 V to 44 V or +/-1.5 V to +/- 22 V
- Wide Input Common Mode Range, Including Ground (VEE)
- Wide Bandwidth: 1.8 MHz
- High Slew Rate: 2.1 V/ μ s
- Low Input Offset Voltage: 2.0 mV
- Large Output Voltage Swing: -14.2 V to +14.2 V (with +/-15 V Supplies)
- Large Capacitance Drive Capability: 0 pF to 500 pF
- Low Total Harmonic Distortion: 0.03%
- Excellent Phase Margin: 60 C°

For more features, see the data sheet

器件电气规格

产品	Pricing (\$/Unit)	Compliance	Status	Rail to Rail	Channels	V _S Min (V)	V _S Max (V)	I _q Typ (mA)	V _{OS} Max (mV)	GB W Typ (MHz)	SR Typ (V/ μ s)	I _o Typ (mA)	ΔV_o s/ ΔT (μ V/C)	e _N (nV/ \sqrt Hz)	I _{bias} Typ (pA)	CM RR Typ (dB)	Architecture	Temperature Range (°C)	Package Type
MC33171DR2G	0.2627	Pb-free Halide free	Active	No	1	3	44	0.22	4.5	1.8	2.1	5	10	32	20000	90	Bipolar	-40 to 85	SOLC-8

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