

Dual Operational Amplifier

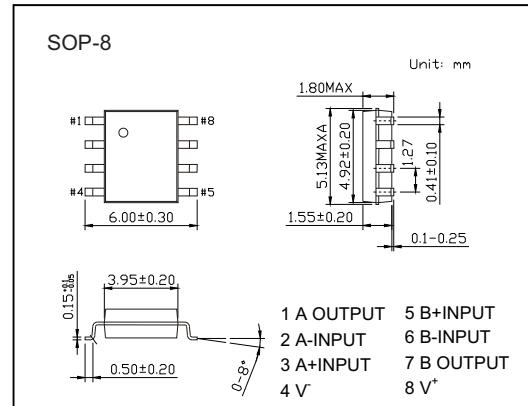
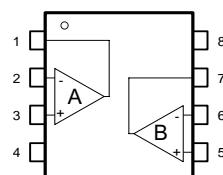
NJM4558

Features

High Voltage Gain :100dB typ.

High Input Resistance: $5M\Omega$ typ.

Bipolar Technology

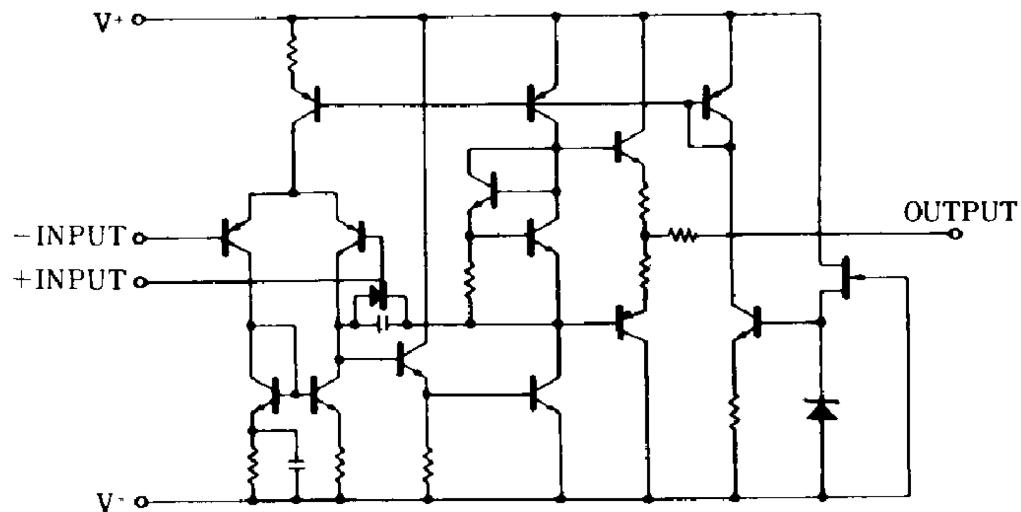


Absolute Maximum Ratings Ta = 25

Parameter	Symbol	Rating	Unit
Supply Voltage	V+/V-	± 18	V
Differential Input Voltage	V _{ID}	± 30	V
Input Voltage	V _{IC}	$\pm 15^*$	V
Power Dissipation	P _D	300	mW
Operating Temperature Range	T _{opr}	-20 to +85	
Storage Temperature Range	T _{stg}	-40 to +125	

* For supply voltage less than $\pm 15V$, the absolute maximum input voltage is equal to the supply voltage.

Equivalent Circuit



NJM4558Electrical Characteristics Ta = 25 ,V⁺/V⁻= ± 15V

Parameter	Symbol	Test conditons	Min	Typ	Max	Unit
Input Offset Voltage	V _{IO}	R _S 10K		0.5	6	mV
Input Offset Current	I _{IO}			5	200	nA
Input Bias Current	I _B			50	500	nA
Input Resistance	R _{IN}		0.3	5		M
Large Signal Voltage Gain	A _V	R _L 2K ,V _O = ± 10V	86	100		dB
Maximum Output Voltage Swing 1	V _{OM1}	R _L 10K	± 12	± 14		v
Maximum Output Voltage Swing 2	V _{OM2}	R _L 2K	± 10	± 13		v
Input Common Mode Voltage Range	V _{ICM}		± 12	14		v
Common Mode Rejection Ratio	CMR	R _S 10K	70	90		dB
Supply Voltage Rejection Ratio	SVR	R _S 10K	76.5	90		dB
Operating Current	I _{CC}			3.5	5.7	mA
Slew Rate	SR			1		V/μ S
Equivalent Input Noise Voltage	V _{NI}	RIAA,R _S = 1K ,30kHz		1.4		μ Vms