

SINGLE-SUPPLY OPERATIONAL AMPLIFIER

■ GENERAL DESCRIPTION

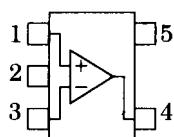
The NJM2125 is a single-supply operational amplifier of small surface mount package.

The features of single-supply operation, low operating voltage (minimum 2.7V) and small package are most suitable for portable items.

■ FEATURES

- Single-Supply Operation
- Low Operating Voltage (+2.7V~20V)
- Low Operating Current (1.0mA typ.)
- Slew Rate (1.2V/ μ s typ.)
- Small Package (SOT-23-5)
- Bipolar Technology

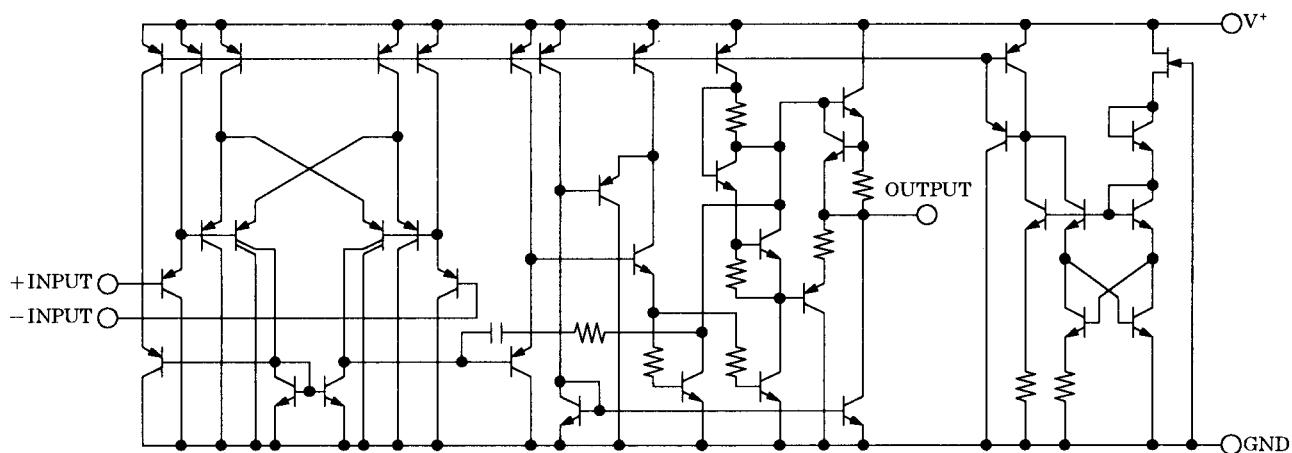
■ PIN CONFIGURATION



NJM2125F
(Top View)

PIN FUCNTION	
1.	+INPUT
2.	GND
3.	-INPUT
4.	OUTPUT
5.	V ⁺

■ EQUIVALENT CIRCUIT



NJM2125

■ ABSOLUTE MAXIMUM RATINGS

(Ta=25°C)

PARAMETER	SYMBOL	RATINGS	UNIT
Supply Voltage	V ⁺	+20	V
Differential Input Voltage	V _{ID}	+20	V
Input Voltage	V _{IC}	-0.3~+20 (Note)	V
Power Dissipation	P _D	(SOT-23-5) 200	mW
Operating Temperature Range	T _{opr}	-40~85	°C
Storage Temperature Range	T _{stg}	-40~125	°C

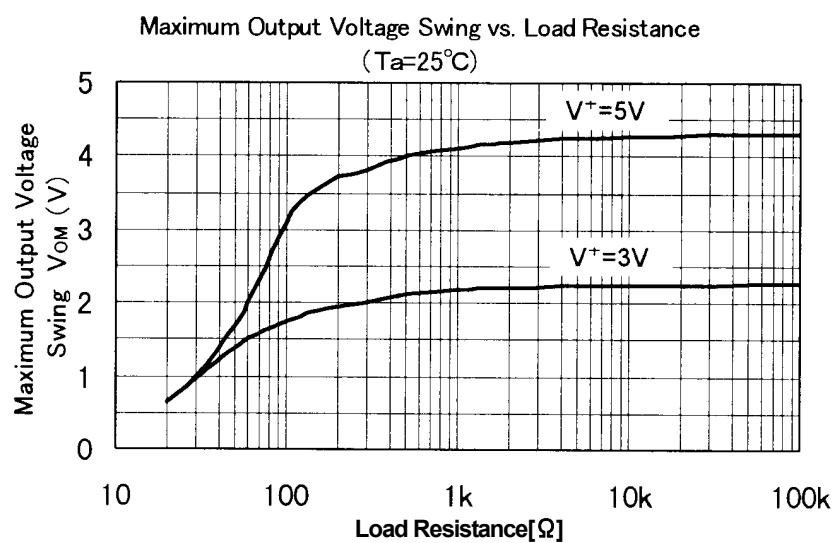
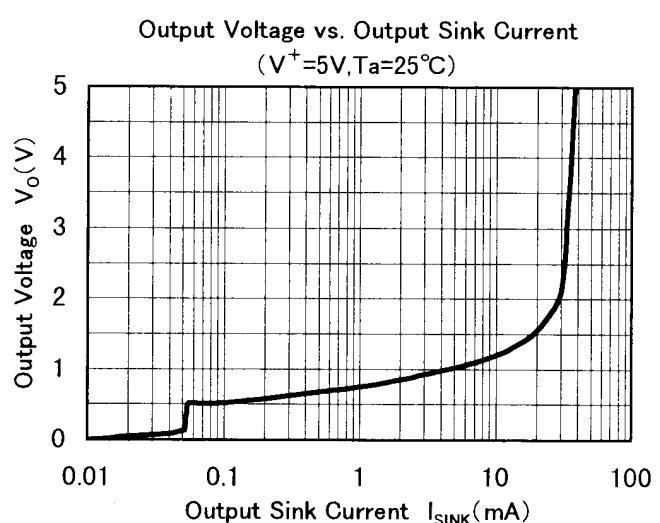
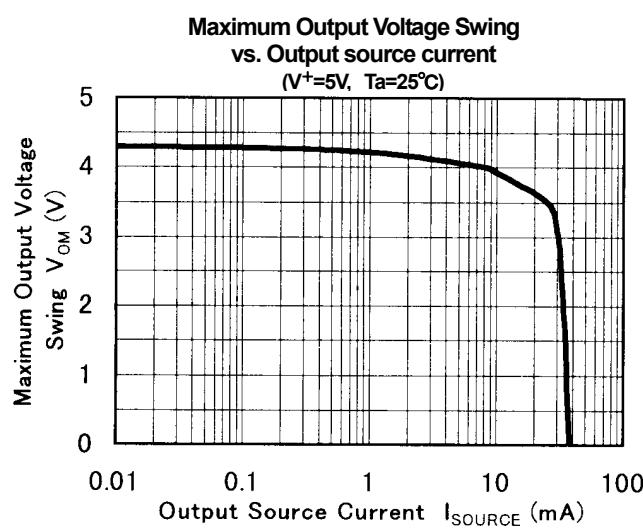
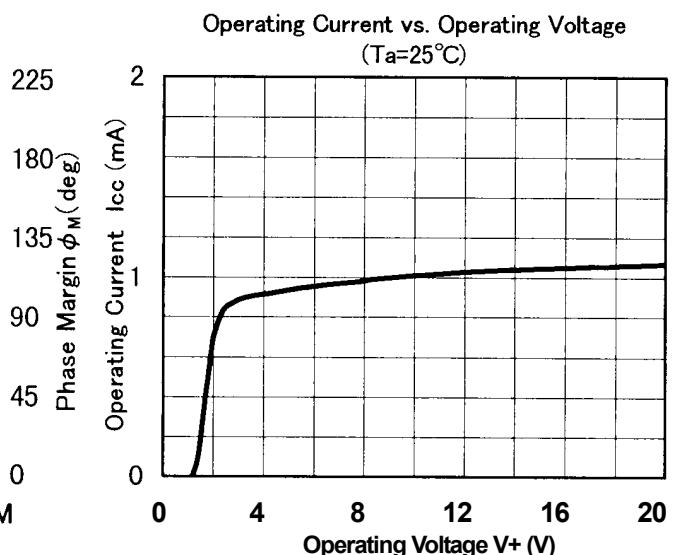
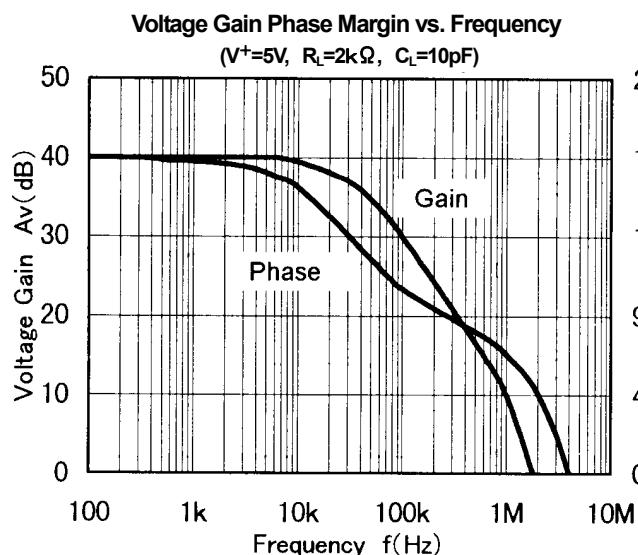
(note) When the supply voltage is less than +20V, the absolute maximum input voltage is equal to the supply voltage.

■ ELECTRICAL CHARACTERISTICS

(V⁺=5V, Ta=25°C)

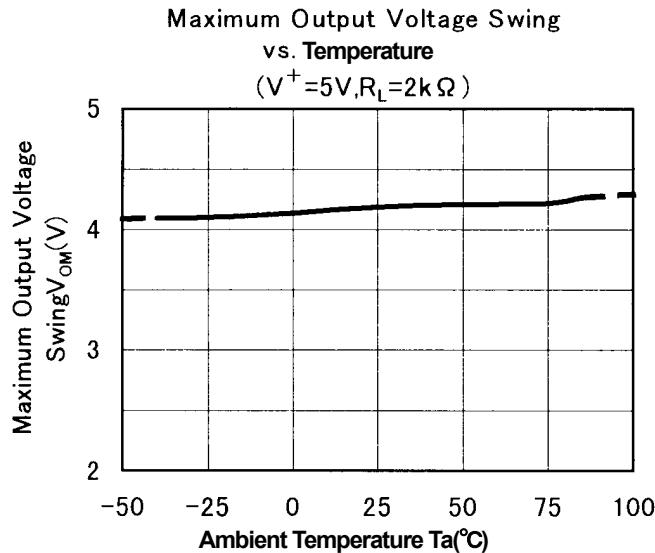
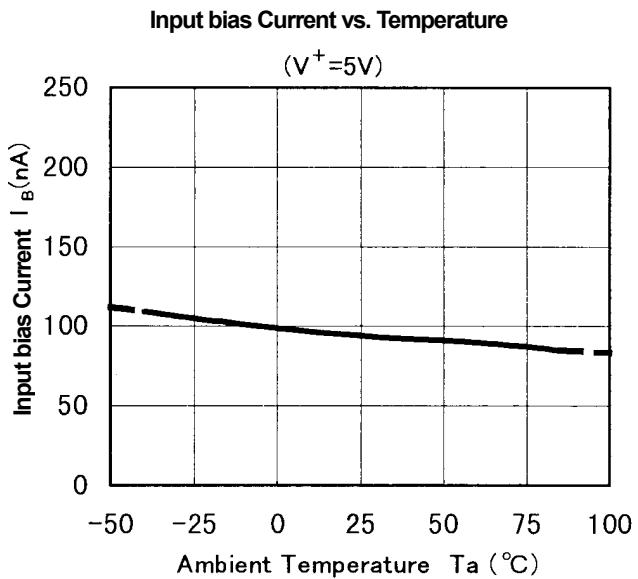
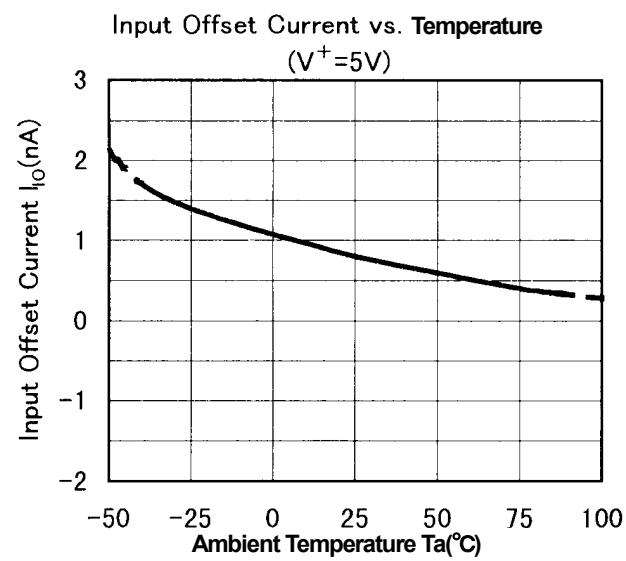
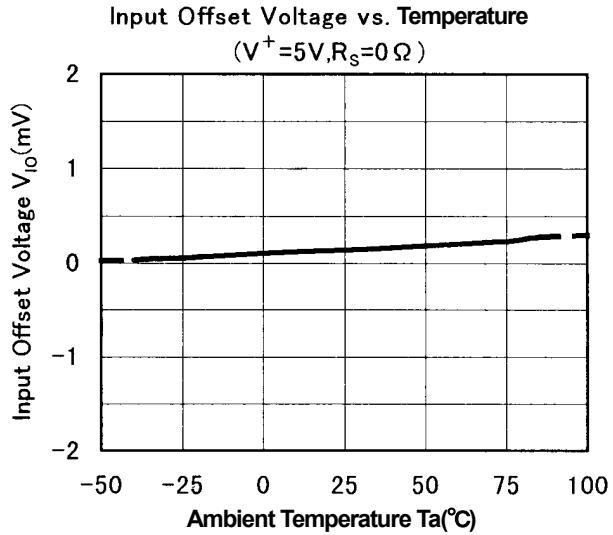
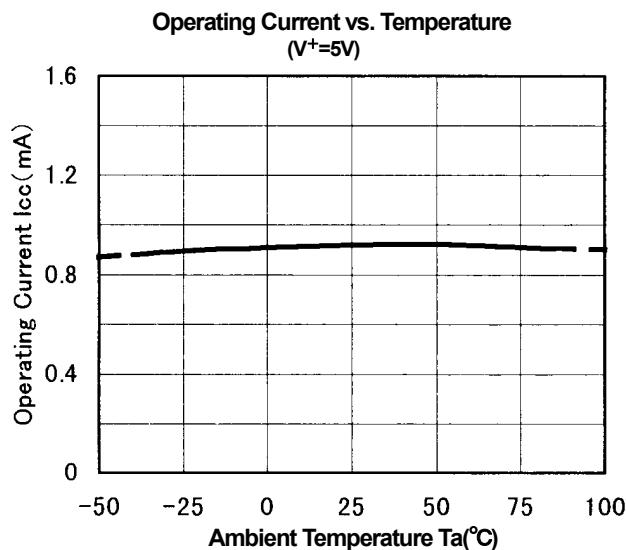
PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Input Offset Voltage	V _{IO}	R _S =0Ω	-	2	7	mV
Input Offset Current	I _{IO}		-	5	50	nA
Input Bias Current	I _B		-	25	250	nA
Large Signal Voltage Gain	A _V	R _L ≥2kΩ	88	100	-	dB
Maximum Output Voltage Swings	V _{OM}	R _L =2kΩ	3.5	-	-	V
Input Common Mode Voltage Range	V _{ICM}		0~3.5	-	-	V
Common Mode Rejection Ratio	CMR		70	90	-	dB
Supply Voltage Rejection Ratio	SVR		80	94	-	dB
Output Source Current	I _{SOURCE}	V _{IN} ⁺ =1V, V _{IN} ⁻ =0V	20	30	-	mA
Output Sink Current	I _{SINK}	V _{IN} ⁺ =0V, V _{IN} ⁻ =1V	8	20	-	mA
Operating Current	I _{CC}	R _L =∞	-	1.0	1.75	mA
Slew Rate	SR		-	1.2	-	V/μs
Unity Gain Frequency	f _f		-	1.2	-	MHz

■ TYPICAL CHARACTERISTICS



NJM2125

■ TYPICAL CHARACTERISTICS



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