

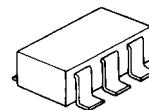
SINGLE COMPARATOR

■ GENERAL DESCRIPTION

The NJM2406 is a single comparator of ultra miniature surface mount package.

The NJM2406 is suitable for small electronic equipments and hybrid circuits.

■ PACKAGE OUTLINE



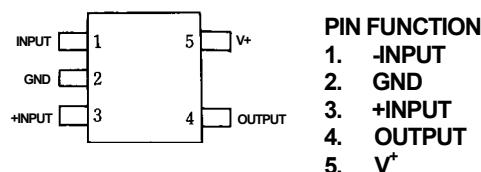
NJM2406F

NNJM2406F3

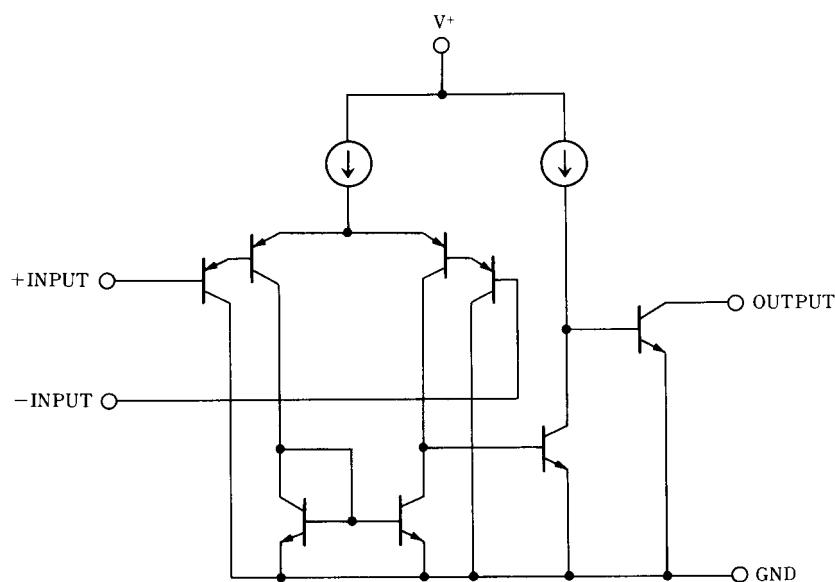
■ FEATURES

- Operating Voltage (2.5V to 7V)
- Single Supply Operation
- Mounted in Ultra Miniature Package 2.0x1.25mm (1/8 of DMP8 package)
- Ground Shield Plate between +Input and Output
- Ground Shield Plate between +Input and -Input
- Suitable Pin Arrangement for Application
- Package Outline SOT-23-5,SC88A
- Bipolar Technology

■ PIN CONFIGURATION

NJM2406F
NNJM2406F3

■ EQUIVALENT CIRCUIT



NJM2406

■ ABSOLUTE MAXIMUM RATINGS

(Ta=25°C)

PARAMETER	SYMBOL	RATINGS	UNIT
Supply Voltage	V ⁺	7	V
Differential Input Voltage	V _{ID}	7	V
Input Voltage	V _{IN}	-0.3~7	V
Power Dissipation	P _D	(SOT-23-5) 200 (SC88A) 250 (note1)	mW
Output to Negative Supply Voltage	V _{SUS}	20	V
Operating Temperature Range	T _{opr}	-40~+85	°C
Storage Temperature Range	T _{stg}	-40~+125	°C

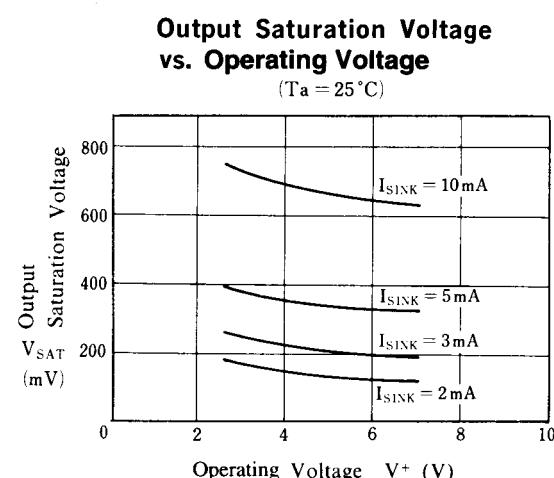
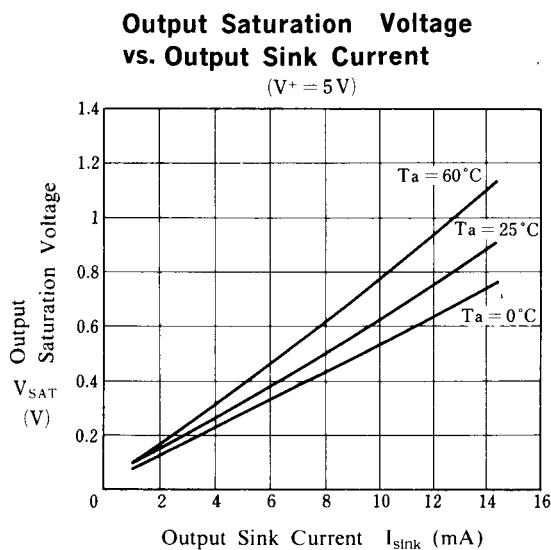
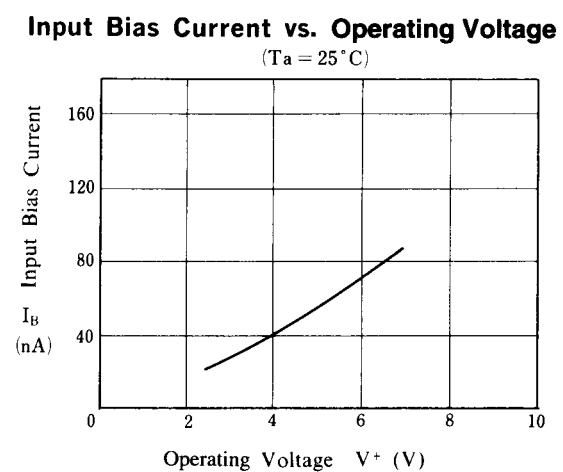
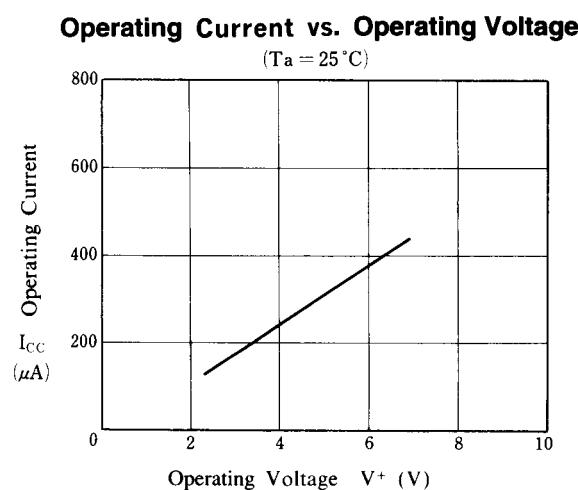
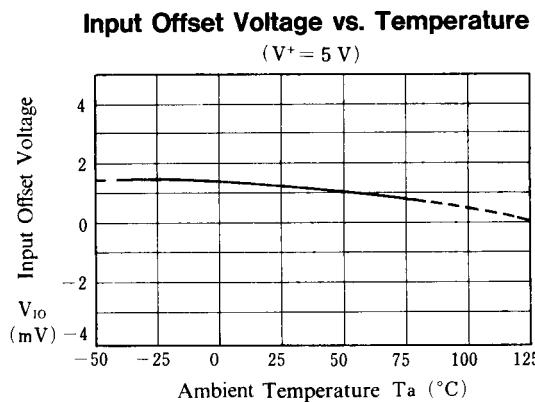
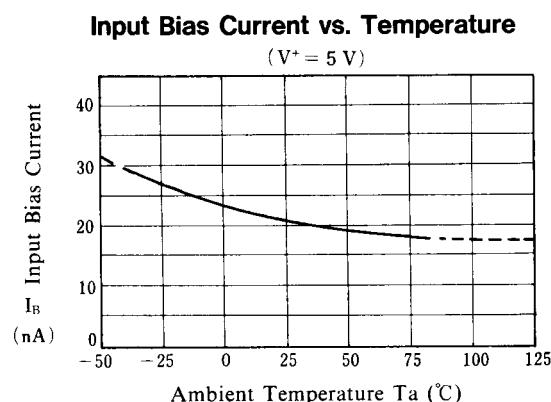
(note1) On glass epoxy board. (50x50x1.6mm)

■ ELECTRICAL CHARACTERISTICS

(V⁺=5V, Ta=25°C)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Input Offset Voltage	V _{IO}	R _S =0Ω, V _O =1.4V	-	1	7	mV
Input Offset Current	I _{IO}		-	1	50	nA
Input Bias Current	I _B		-	20	250	nA
Input Common Mode Voltage Range	V _{ICM}		0~3.5	-	-	V
Large Signal Voltage Gain	A _V	R _L =15kΩ	-	106	-	dB
Response Time	t _R	R _L =5.1kΩ	-	1.5	-	μs
Output Sink Current	I _{SINK}	V _{IN} ⁻ =1V, V _{IN} ⁺ =0V, V _O =1.5V	6	-	-	mA
Output Saturation Voltage	V _{SAT}	V _{IN} ⁻ =1V, V _{IN} ⁺ =0V, I _{SINK} =5mA	-	300	500	mV
Output Leakage Current	I _{LEAK}	V _{IN} ⁻ =0V, V _{IN} ⁺ =1V, V _O =20V	-	-	1	μA
Operating Current	I _{CC}		200	400	800	μA

■ TYPICAL CHARACTERISTICS



NJM2406

■ TYPICAL CHARACTERISTICS

