Designated client product

This product will be discontinued its production in the near term. And it is provided for customers currently in use only, with a time limit. It can not be available for your new project. Please select other new or existing products.

For more information, please contact our sales office in your region.

New Japan Radio Co.,Ltd.

www.njr.com

SINGLE COMPARATOR

■ GENERAL DESCRIPTION

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

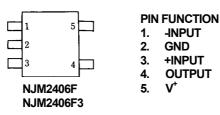
The NJM2406 is suitable for small electronic equipments and hybrid circuits.

■ FEATURES

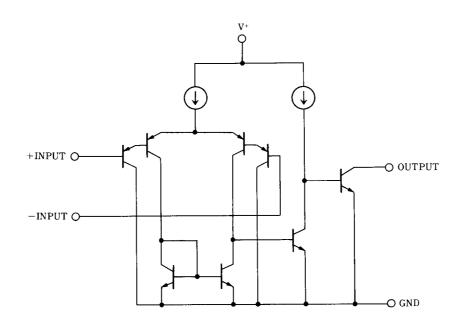
JRC

- 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



■ EQUIVALENT CIRCUIT





NJM2406F

■ PACKAGE OUTLINE



NNJM2406F3

Ver.2012-10-31

■ ABSOLUTE MAXIMUM RATINGS

			(Ta=25°C)
PARAMETER	SYMBOL	RATINGS	UNIT
Supply Voltage	V ⁺	7	V
Differential Input Voltage	VID	7	V
Input Voltage	VIN	-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

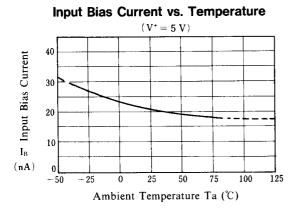
(note1) On glass epoxy board. (50x50x1.6mm)

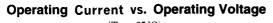
■ ELECTRICAL CHARACTERISTICS

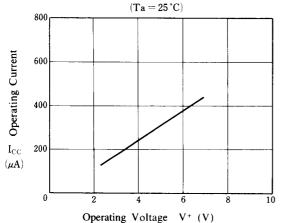
	(v = 5v, 1a = 25 C)					
PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Input Offset Voltage	V _{IO}	R _S =0Ω,V _O =1.4V	-	1	7	mV
Input Offset Current	lio		-	1	50	nA
Input Bias Current	I _B		-	20	250	nA
Input Common Mode Voltage Range	VICM		0~3.5	-	-	V
Large Signal Voltage Gain	Av	R∟=15kΩ	-	106	-	dB
Response Time	t _R	R∟=5.1kΩ	-	1.5	-	μs
Output Sink Current	ISINK	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	ILEAK	V _{IN} ⁻ =0V,V _{IN} ⁺ =1V,V _O =20V	-	-	1	μA
Operating Current	I _{CC}		200	400	800	μA

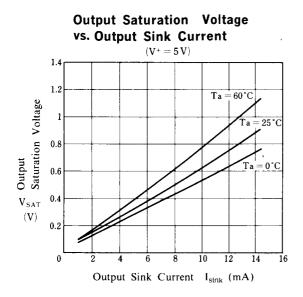
 $(V^{+}=5VTa=25^{\circ}C)$

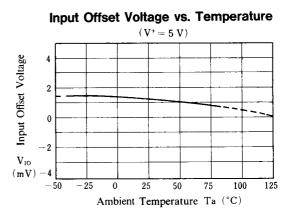
TYPICAL CHARACTERISTICS

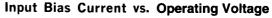


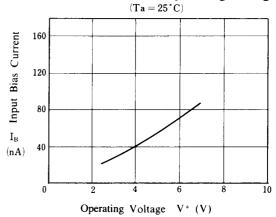


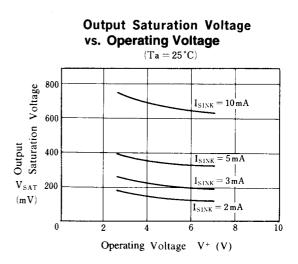






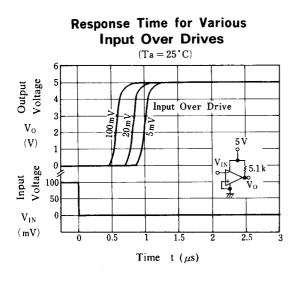


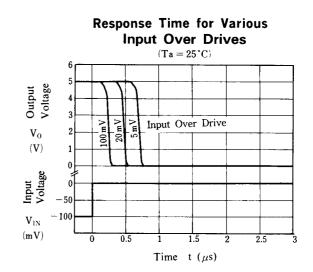




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■ TYPICAL CHARACTERISTICS





[CAUTION]

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