

TOSHIBA BIPOLAR LINEAR INTEGRATED CIRCUIT SILICON MONOLITHIC

**TA75072P, TA75072S, TA75072F****DUAL OPERATIONAL AMPLIFIER**

The TA75072P, TA75072S and TA75072F are J-FET input low-noise operational amplifiers with low input bias and offset current, fast slew rate and wide bandwidth.

The TA75072P is pin compatible with the TA75458P and 1458. The TA75072S is single-in-line package.

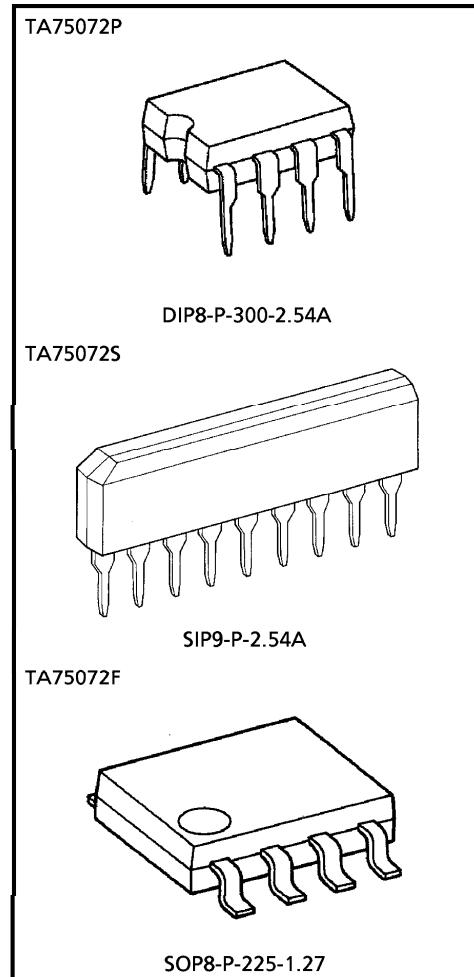
It is possible to exchange the position of 9 pin for 1 pin because of pin connection being symmetric.

The TA75072F is mini-flat package.

The TA75072P series are excellent choice for active filters, integrators, buffers and sample-and-hold circuits.

**FEATURES**

- Low Input Bias Current : 200pA MAX.
- Low Input Offset Current : 50pA MAX.
- High Slew Rate : 13V /  $\mu$ s
- Low Noise : 18nV /  $\sqrt{\text{Hz}}$
- Wide Bandwidth : 3MHz
- Wide Supply Voltage Range :  $\pm 4 \sim \pm 18$ V
- Internal Frequency Compensation
- Output Short Circuit Protection



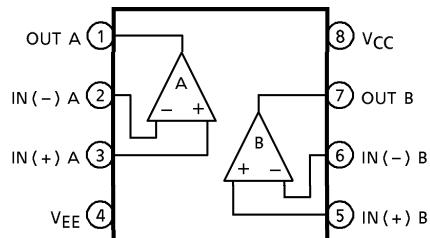
**Weight**  
 DIP8-P-300-2.54A : 0.5g (Typ.)  
 SIP9-P-2.54A : 0.9g (Typ.)  
 SOP8-P-225-1.27 : 0.1g (Typ.)

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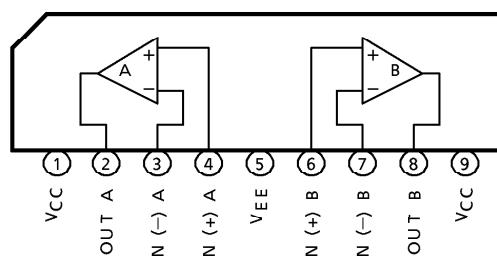
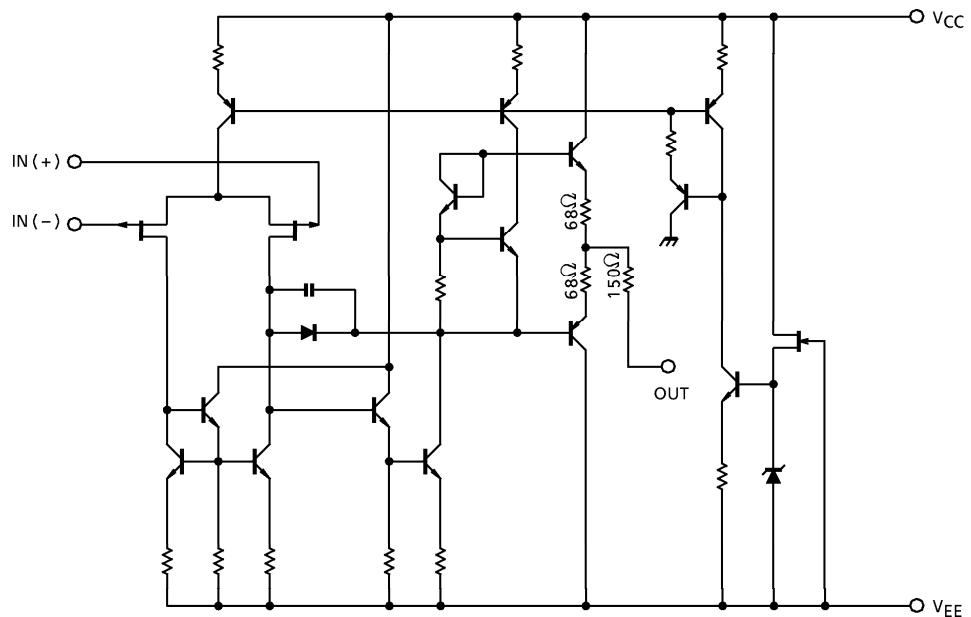
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**PIN CONNECTION (TOP VIEW)**

TA75072P, TA75072F



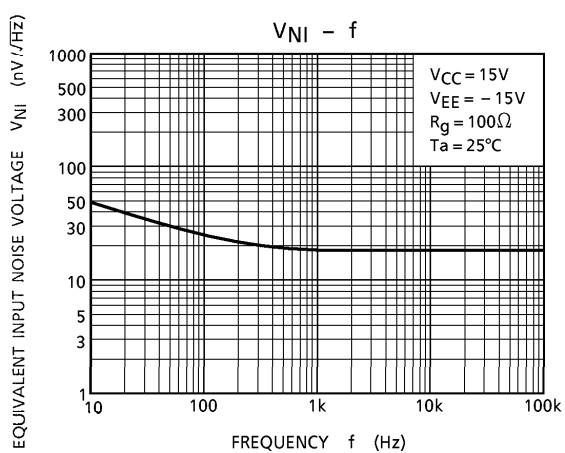
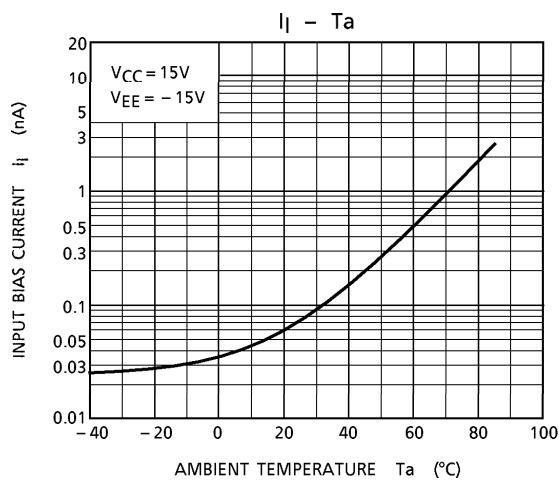
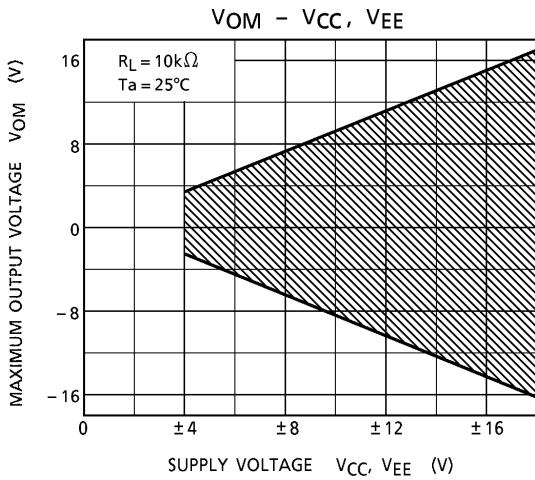
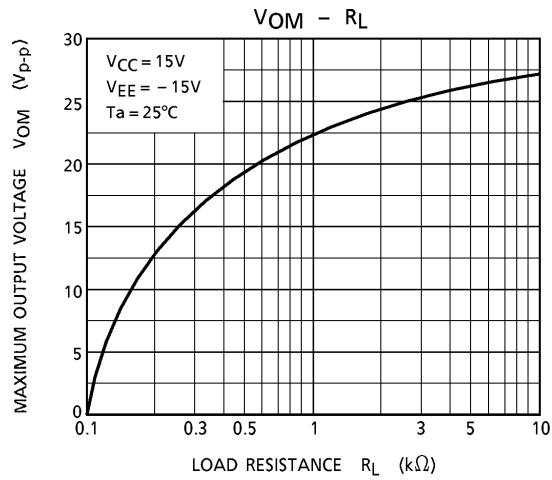
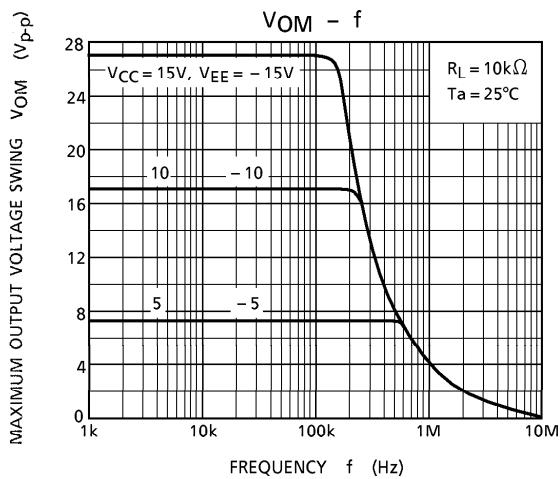
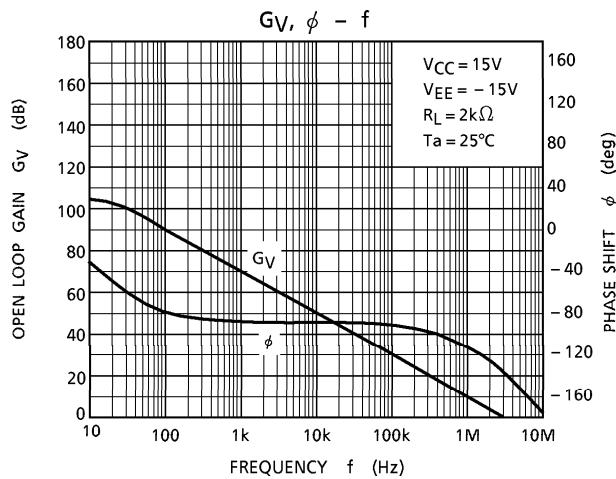
TA75072S

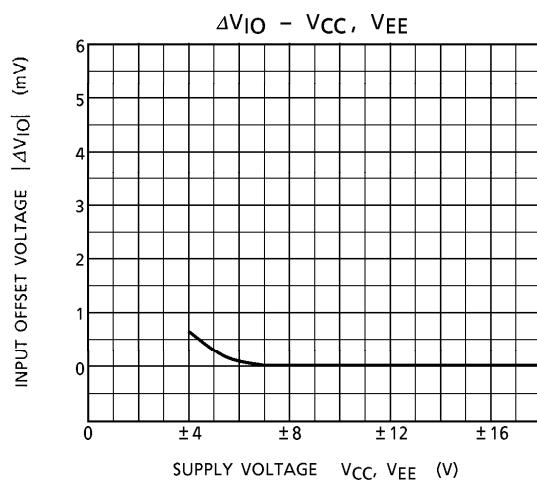
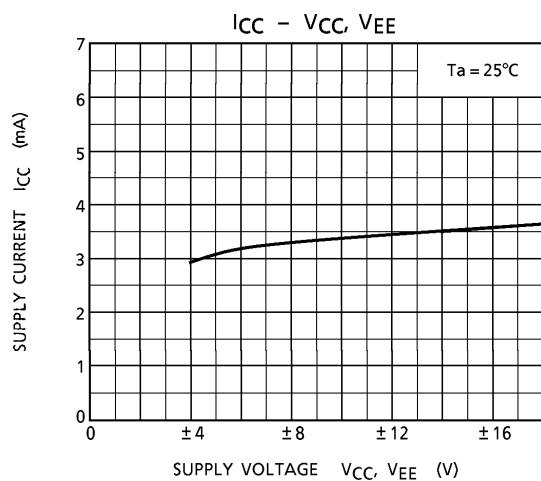
**EQUIVALENT CIRCUIT****MAXIMUM RATINGS (Ta = 25°C)**

CHARACTERISTIC		SYMBOL	RATING	UNIT	
Supply Voltage		V <sub>CC</sub>	+ 18	V	
		V <sub>EE</sub>	- 18		
Differential Input Voltage		DV <sub>IN</sub>	± 30	V	
Input Voltage		V <sub>IN</sub>	± 15	V	
Power Dissipation	TA75072P	P <sub>D</sub>	500	mW	
	TA75072S				
	TA75072F		240		
Operating Temperature		T <sub>opr</sub>	- 40~85	°C	
Storage Temperature		T <sub>stg</sub>	- 55~125	°C	



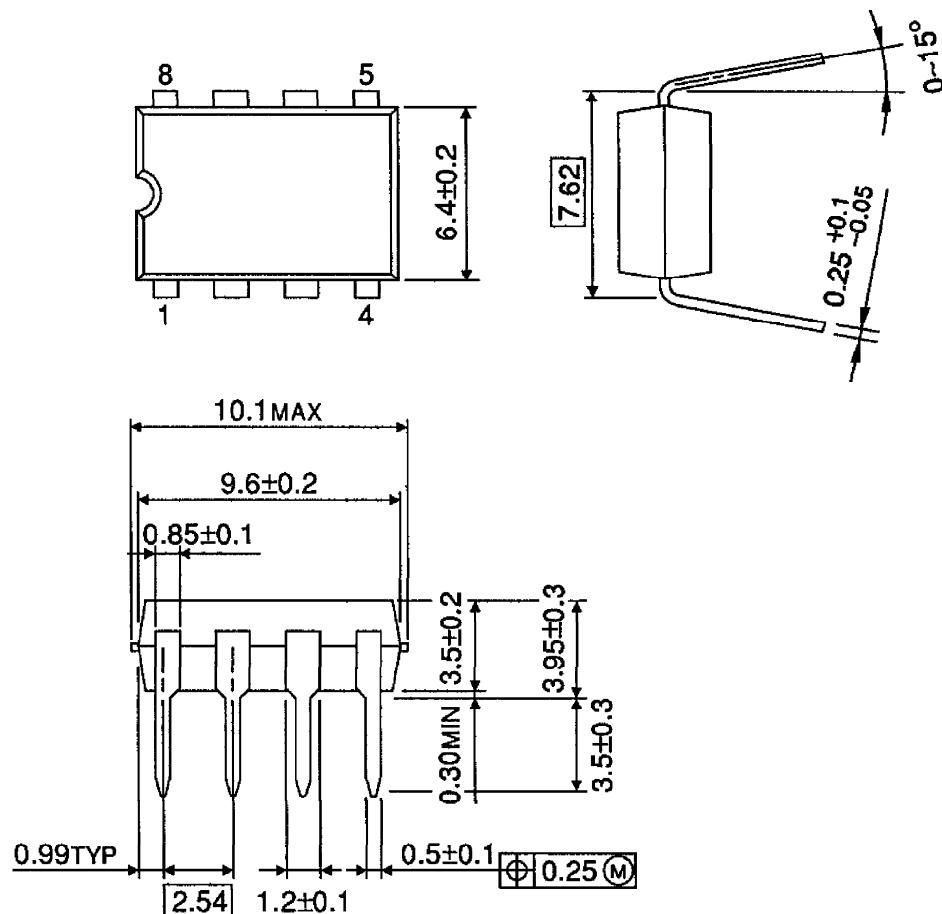
## CHARACTERISTICS





**OUTLINE DRAWING**  
DIP8-P-300-2.54A

Unit : mm

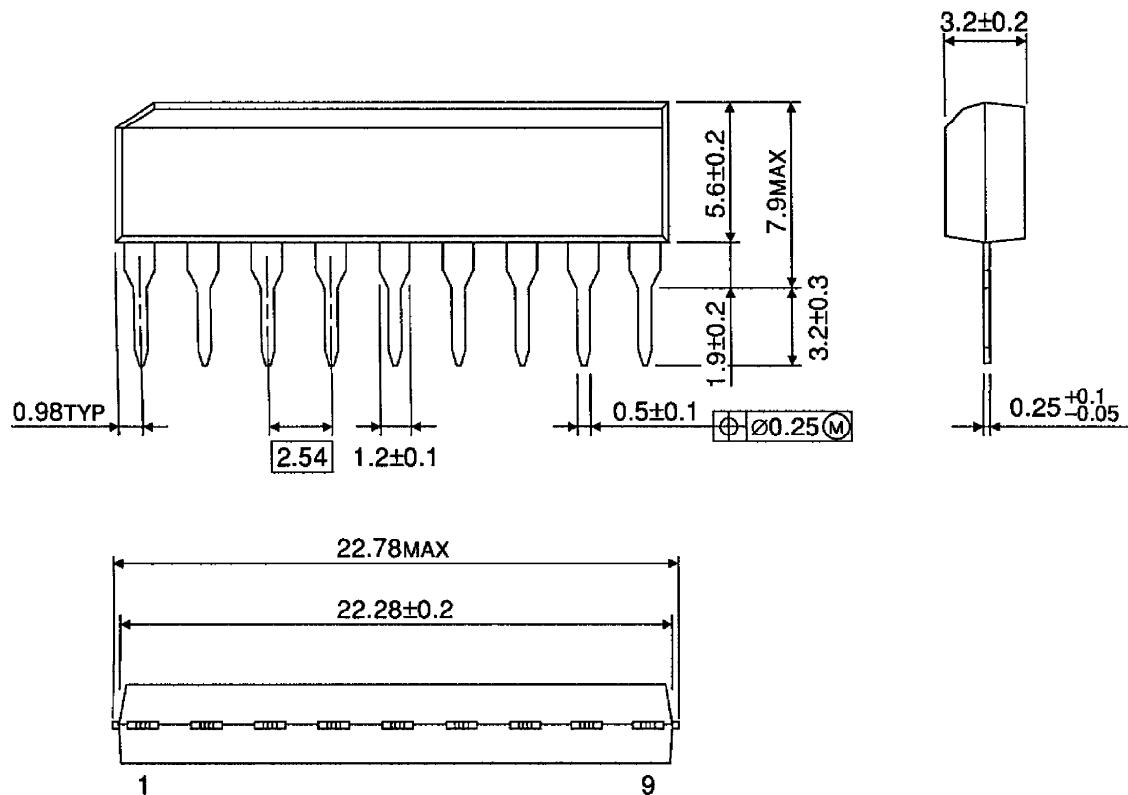


Weight : 0.5g (Typ.)

**OUTLINE DRAWING**

SIP9-P-2.54A

Unit : mm

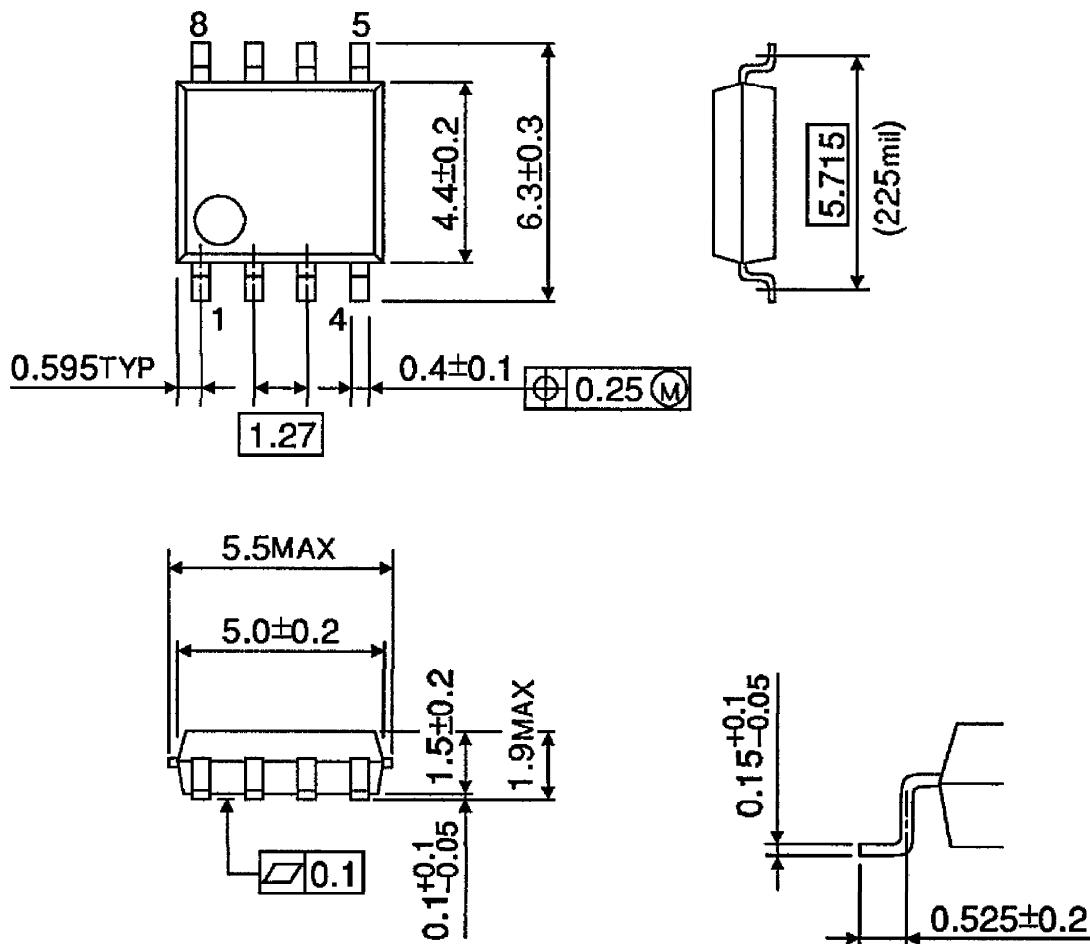


Weight : 0.9g (Typ.)

## OUTLINE DRAWING

SOP8-P-225-1.27

Unit : mm



Weight : 0.1g (Typ.)