

TOSHIBA BIPOLAR DIGITAL INTEGRATED CIRCUIT MULTI CHIP

# TD62M8604AF

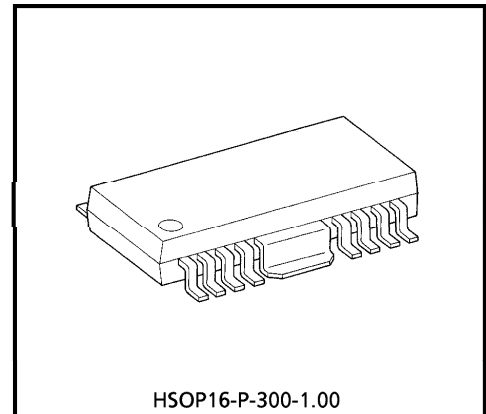
## 8ch LOW SATURATION VOLTAGE SOURCE DRIVER

The TD62M8604AF is Multi Chip IC incorporates 8 low saturation discrete (PNP : 2SA1680) transistors.

This IC is suitable for a battery use motor drive and LED display module applications.

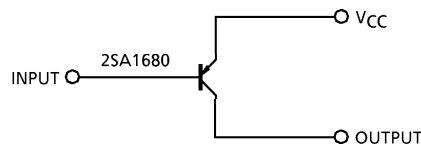
### FEATURES

- Suitable for Motor drive circuit and LED display module
- Low Saturation Voltage  
 $V_{CE(sat)} = -0.5V$  (Typ.) at  $I_C = -0.5A$   
 $V_{BE(sat)} = -1.2V$  (Max.) at  $I_C = -1.0A$
- HSOP16 power small package sealed

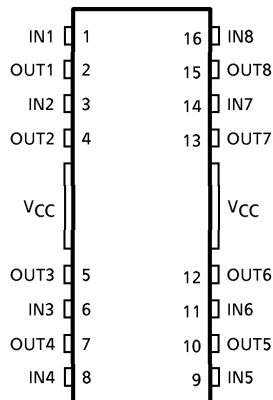


Weight : 0.50g (Typ.)

### BLOCK DIAGRAM



### PIN CONNECTION (TOP VIEW)



961001EBA2

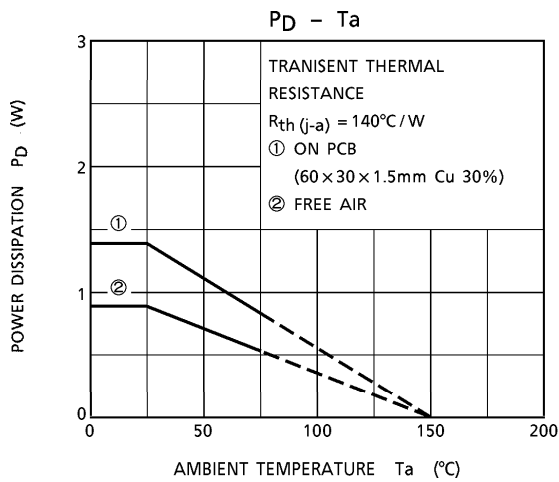
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## MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Supply Voltage	V <sub>CC</sub>	- 50	V
Breakdown Voltage	V <sub>CBO</sub>	- 60	V
Breakdown Voltage	V <sub>CEO</sub>	- 50	V
Breakdown Voltage	V <sub>EBO</sub>	- 6	V
Output Current	I <sub>O</sub>	- 2	A / ch
Base Current	I <sub>B</sub>	- 0.2	A
Power Dissipation	P <sub>D</sub>	900	mW
Junction Temperature	T <sub>j</sub>	150	°C
Operating Temperature	T <sub>opr</sub>	- 40~85	°C
Storage Temperature	T <sub>stg</sub>	- 55~150	°C

## ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CIR-CUIT	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Current Gain	h <sub>FE</sub> (1)	—	V <sub>CE</sub> = -2V, I <sub>C</sub> = -0.1A	120	—	400	
	h <sub>FE</sub> (2)	—	V <sub>CE</sub> = -2V, I <sub>C</sub> = -1.5A	40	—	—	
Saturation Voltage	V <sub>CE</sub> (sat)	—	I <sub>C</sub> = -1A, I <sub>B</sub> = -50mA	—	—	-0.5	V
	V <sub>BE</sub> (sat)	—	I <sub>C</sub> = -1A, I <sub>B</sub> = -50mA	—	—	-1.2	
Transition Frequency	f <sub>T</sub>	—	V <sub>CE</sub> = -2V, I <sub>C</sub> = -0.1A	—	100	—	MHz
Leakage Current	I <sub>OL</sub>	—	V <sub>CC</sub> = -50V	—	0	-5	μA

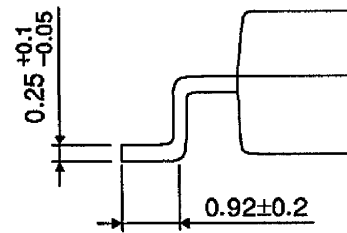
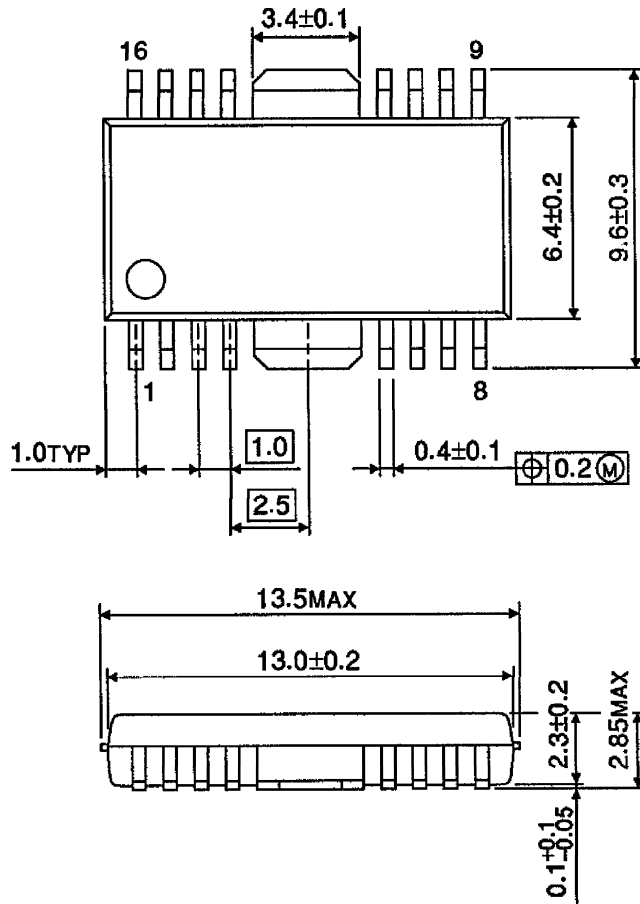


**PRECAUTIONS for USING**

Utmost care is necessary in the design of the output line, V<sub>CC</sub> and GND line since IC may be destroyed due to short-circuit between outputs, air contamination fault, or fault by improper grounding.

OUTLINE DRAWING  
HSOP16-P-300-1.00

Unit : mm



Weight : 0.50g (Typ.)