

TOSHIBA BIPOLAR DIGITAL INTEGRATED CIRCUIT MULTI CHIP

TD62M8604AF

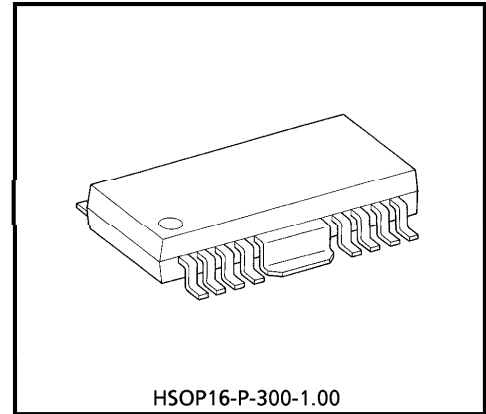
8ch LOW SATURATION VOLTAGE SOURCE DRIVER

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.

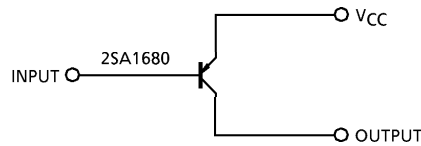
FEATURES

- 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

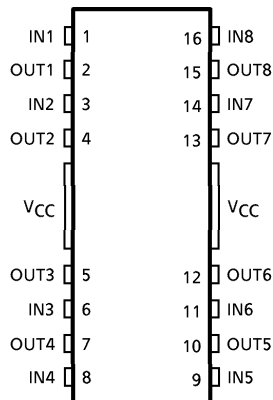


Weight : 0.50g (Typ.)

BLOCK DIAGRAM



PIN CONNECTION (TOP VIEW)



961001EBA2

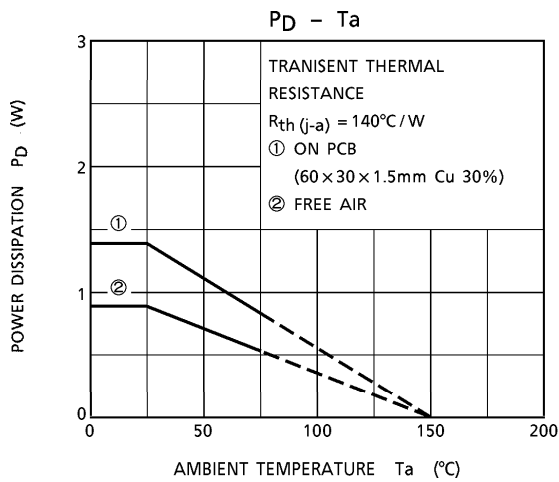
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MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Supply Voltage	V _{CC}	- 50	V
Breakdown Voltage	V _{CBO}	- 60	V
Breakdown Voltage	V _{CEO}	- 50	V
Breakdown Voltage	V _{EBO}	- 6	V
Output Current	I _O	- 2	A / ch
Base Current	I _B	- 0.2	A
Power Dissipation	P _D	900	mW
Junction Temperature	T _j	150	°C
Operating Temperature	T _{opr}	- 40~85	°C
Storage Temperature	T _{stg}	- 55~150	°C

ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CIR-CUIT	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Current Gain	h _{FE} (1)	—	V _{CE} = -2V, I _C = -0.1A	120	—	400	
	h _{FE} (2)	—	V _{CE} = -2V, I _C = -1.5A	40	—	—	
Saturation Voltage	V _{CE} (sat)	—	I _C = -1A, I _B = -50mA	—	—	-0.5	V
	V _{BE} (sat)	—	I _C = -1A, I _B = -50mA	—	—	-1.2	
Transition Frequency	f _T	—	V _{CE} = -2V, I _C = -0.1A	—	100	—	MHz
Leakage Current	I _{OL}	—	V _{CC} = -50V	—	0	-5	μA

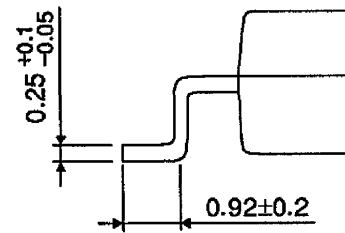
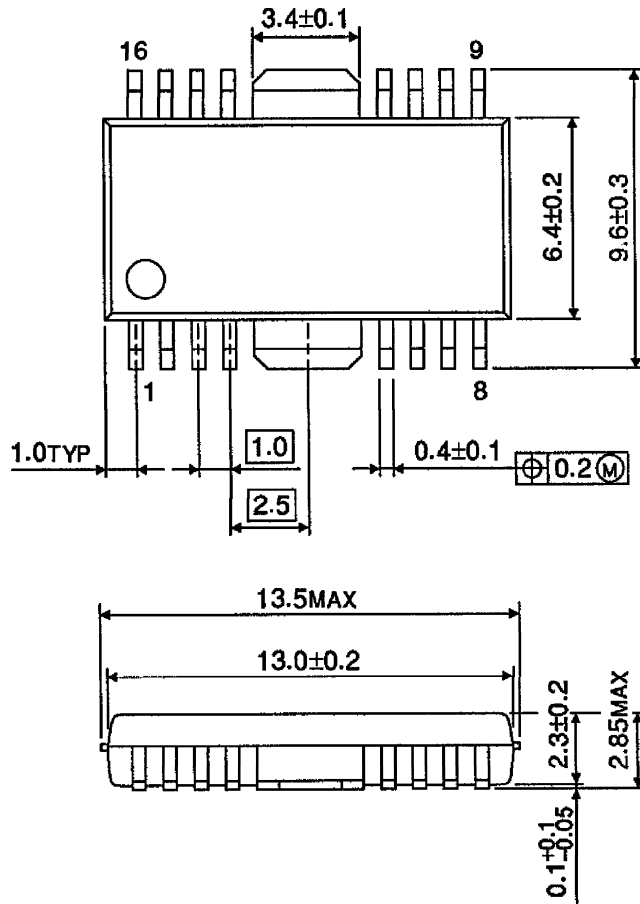


PRECAUTIONS for USING

Utmost care is necessary in the design of the output line, V_{CC} 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.)

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