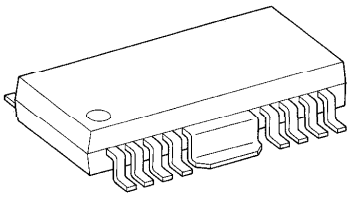
TOSHIBA BIPOLAR DIGITAL INTEGRATED CIRCUIT MULTI CHIP

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.



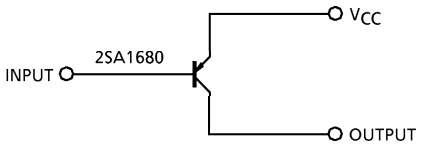
HSOP16-P-300-1.00

Weight : 0.50g (Typ.)

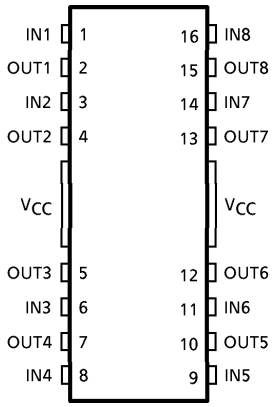
FEATURES

- 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

BLOCK DIAGRAM



PIN CONNECTION (TOP VIEW)



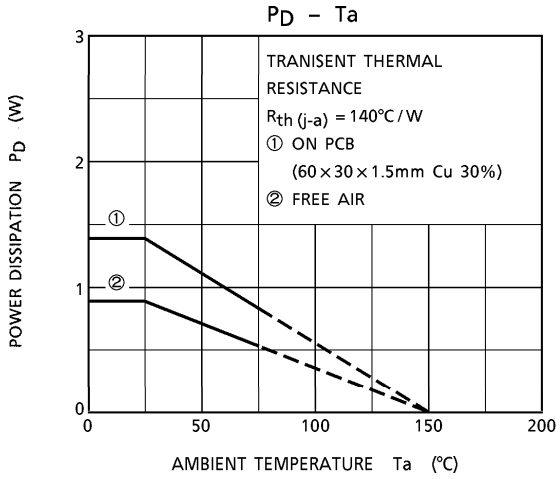
961001EBA2

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



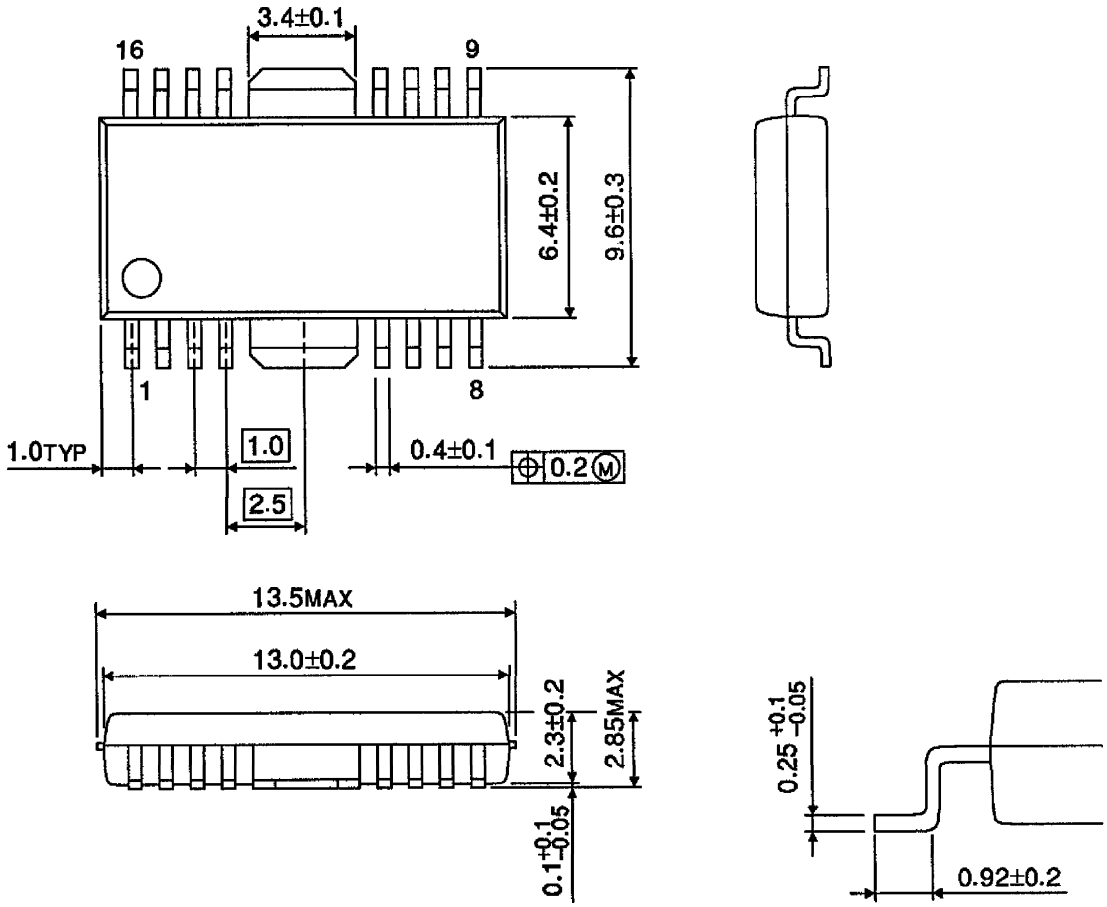
PRECAUTIONS for USING

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.)