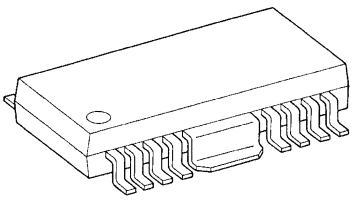
TOSHIBA BIPOLAR DIGITAL INTEGRATED CIRCUIT MULTI CHIP

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.
Please observe the thermal condition for using.



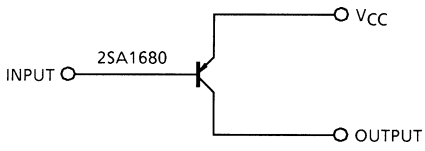
HSOP16-P-300-1.00

Weight: 0.50 g (Typ.)

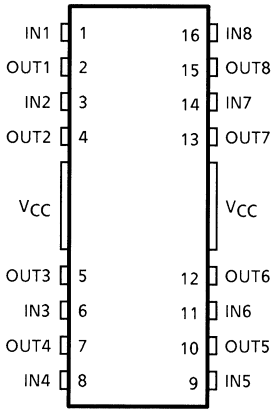
FEATURES

- Suitable for Motor drive circuit and LED display module
- Low Saturation Voltage
  $V_{CE\ (sat)} = -0.5$ V (Typ.) at $I_C = -0.5$ A
  $V_{BE\ (sat)} = -1.2$ V (Max.) at $I_C = -1.0$ A
- HSOP16 (1 mm pitch) power small package sealed

BLOCK DIAGRAM



PIN CONNECTION (TOP VIEW)

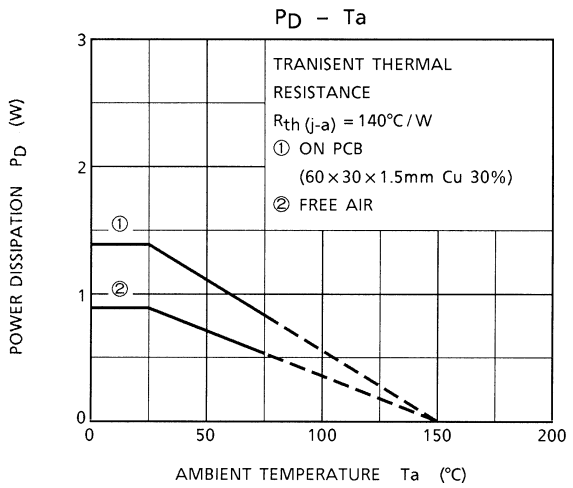


MAXIMUM RATINGS (Ta = 25°C)

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} = −2 V, I_C = −0.1 A	120	—	400	
	$h_{FE\ (2)}$		V_{CE} = −2 V, I_C = −1.5 A	40	—	—	
Saturation Voltage	$V_{CE\ (sat)}$	—	I_C = −1 A, I_B = −50 mA	—	—	−0.5	V
	$V_{BE\ (sat)}$	—	I_C = −1 A, I_B = −50 mA	—	—	−1.2	
Transition Frequency	f_T	—	V_{CE} = −2 V, I_C = −0.1 A	—	100	—	MHz
Leakage Current	I_{OL}	—	V_{CC} = −50 V	—	0	−5	μA



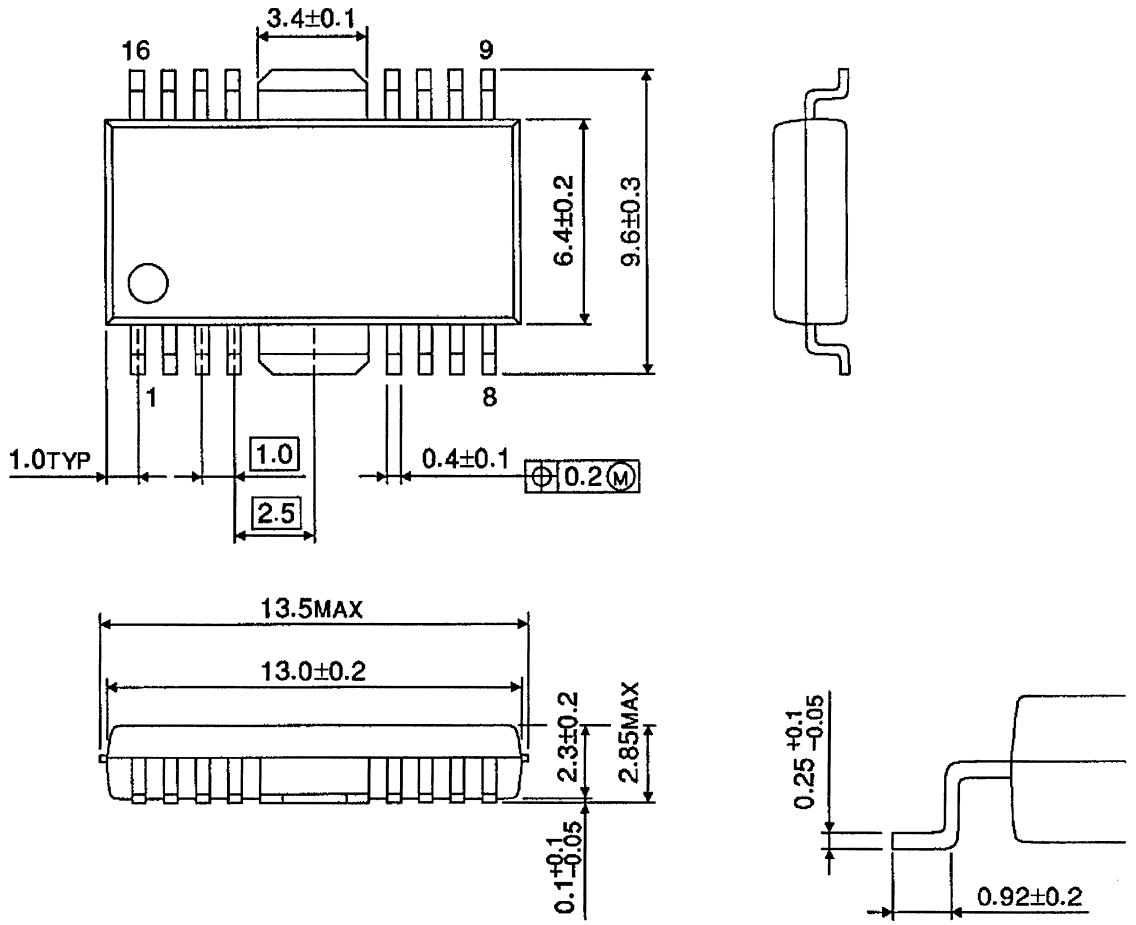
PRECAUTIONS for USING

This IC does not integrate protection circuits such as overcurrent and overvoltage protectors. Thus, if excess current or voltage is applied to the IC, the IC may be damaged. Please design the IC so that excess current or voltage will not be applied to the IC.

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.

PACKAGE DIMENSIONS

HSOP16−P−300−1.00 Unit: mm



Weight: 0.50 g (Typ.)

RESTRICTIONS ON PRODUCT USE

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