TOSHIBA TD62M8601F

TOSHIBA BIPOLAR DIGITAL INTEGRATED CIRCUIT MULTI CHIP

TD62M8601F

8CH LOW SATURATION VOLTAGE SOURCE DRIVER

TD62M8601F is Multi Chip IC incorporates 8 low saturation discrete (2SA1357) transistors.

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

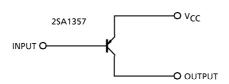
FEATURES

- Suitable for Motor drive circuit and LED display module
- **External Bias Resistor**
- Low Saturation Voltage

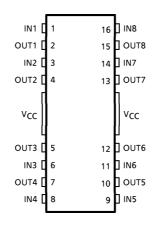
 $V_{CE (sat)} = 0.12V (Typ.)$ at $I_C = 1A$ $V_{CE (sat)} = 0.25V (Typ.)$ at $I_C = 2A$

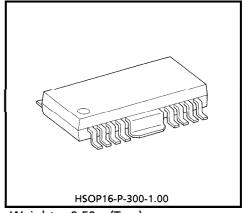
HSOP16 pitch power small package sealed

SCHEMATICS



PIN CONNECTION (TOP VIEW)





Weight: 0.50g (Typ.)

1998-05-15 1/4

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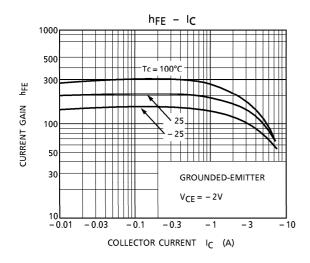
MAXIMUM RATINGS (Ta = 25°C)

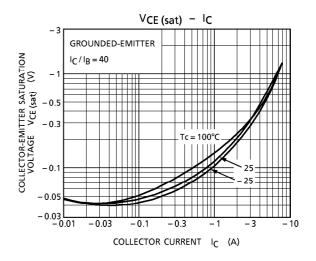
CHARACTERISTIC	SYMBOL	RATING	UNIT	
Supply Voltage	VCC	– 20	V	
Breakdown Voltage	V _{CBO}	- 20	V	
	VCEO	– 20		
	V _{EBO}	-8		
Output Current	lo	-2	A / ch	
	IO (PEAK)	(Note) – 4	A/CII	
Base Current	ΙΒ	– 1	Α	
Power Dissipation	PD	900	mW	
Junction Temperature	Тј	150	°C	
Operating Temperature	T _{opr}	- 40∼85	°C	
Storage Temperature	T _{stg}	- 55~150	°C	

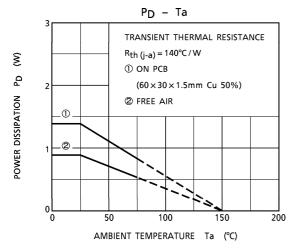
(Note) T = 10ms MAX. and maximum duty is less than 30%.

ELECTRICAL CHARACTERISTICS (Ta = 25°C)

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CHARACTERISTIC	SYMBOL	TEST CIR- CUIT	TEST CONDITION	MIN.	TYP.	MAX.	UNIT			
Current Gain	h _{FE} (1)	_	$V_{CE} = -2V$, $I_{C} = -0.5A$	100	_	320				
	h _{FE} (2)	_	$V_{CE} = -2V$, $I_{C} = -2.0A$	70	140	_				
Saturation Voltage	V _{CE} (sat)	_	$I_C = -1A$, $I_B = -25mA$		- 0.12	- 0.25	V			
			$I_C = -2A$, $I_B = -50mA$	_	- 0.25	- 0.50				
Transition Frequency	f _T	_	$V_{CB} = -2V$, $I_{C} = -0.5A$	_	100		MHz			
Leakage Current	lOL	_	$V_{CC} = -20V$	_	0	- 10	μ A			
Base-Emitter Forward Voltage	V _{BE}	_	$V_{CB} = -2V$, $I_{C} = -2.0A$	_	- 0.84	- 1.5	V			







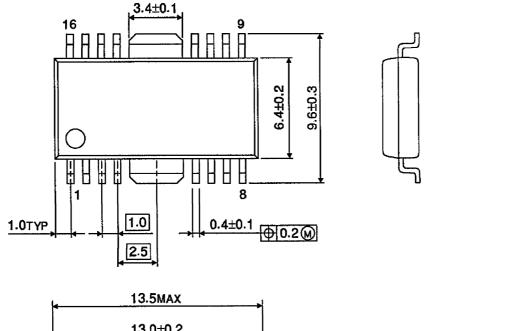
PRECAUTIONS for USING

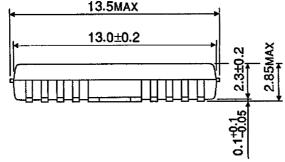
Utmost care is necessary in the design of the output line, V_{CC} and GND line since IC may be destroyed due to short-circuit between outputs, air contamination fault, or fault by improper grounding.

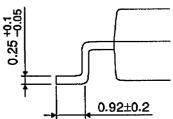
OUTLINE DRAWING

HSOP16-P-300-1.00

Unit: mm







Weight: 0.50g (Typ.)