

TENTATIVE TOSHIBA BIPOLAR LINEAR INTEGRATED CIRCUIT SILICON MONOLITHIC

TA8300F

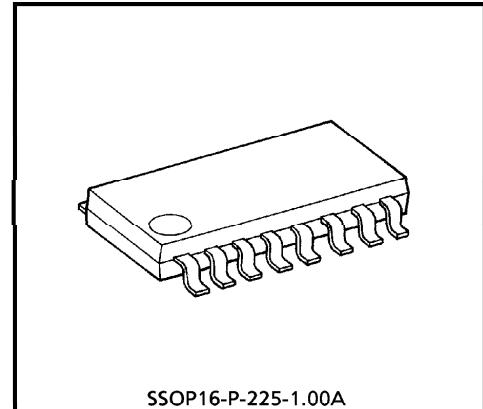
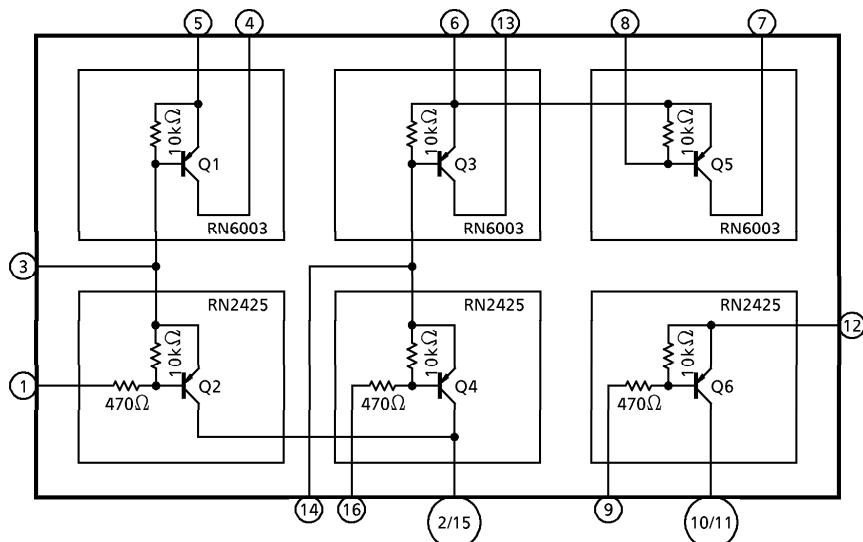
MOTOR DRIVER FOR CAMERA

TA8300F is Multi Chip IC incorporates 6 low saturation discrete transistors which equipped bias resistor. This IC is suitable for a camera use motor drive applications.

FEATURES

- Suitable for high efficiency motor drive circuit.
- Built-in Bias Resistor : $R = 10k\Omega$
- Small package sealed : SSOP16
- Low saturation voltage
- H-bridge (only upper side)

BLOCK DIAGRAM



Weight : 0.14g (Typ.)

980910EBA2

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FUNCTION DESCRIPTION ON EACH TERMINAL

PIN No.	FUNCTION	
1	Tr. Q2	Input Terminal
2	Tr. Q2, Q4	Output Terminal
3	Tr. Q1	Input Terminal
4	Tr. Q1	Output Terminal
5	Tr. Q1	Supply Voltage
6	Tr. Q3, Q5	Supply Voltage
7	Tr. Q5	Output Terminal
8	Tr. Q5	Input Terminal
9	Tr. Q6	Input Terminal
10	Tr. Q6	Output Terminal
11	Tr. Q6	Output Terminal
12	Tr. Q6	Supply Voltage
13	Tr. Q3	Output Terminal
14	Tr. Q3	Input Terminal
15	Tr. Q2, Q4	Output Terminal
16	Tr. Q4	Input Terminal

MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Supply Voltage	V _{CC}	7.0	V
Breakdown Voltage	V _{CBO}	7.0	V
	V _{CEO}	7.0	V
	V _{EBO}	5.0	V
	I _{OUT}	0.8	A
Output Current	I _B	0.4	A
Base Current	P _D	490	mW
Power Dissipation	T _j	150	°C
Junction Temperature	T _{opr}	- 20~60	°C
Operating Temperature	T _{stg}	- 55~150	°C
Storage Temperature			

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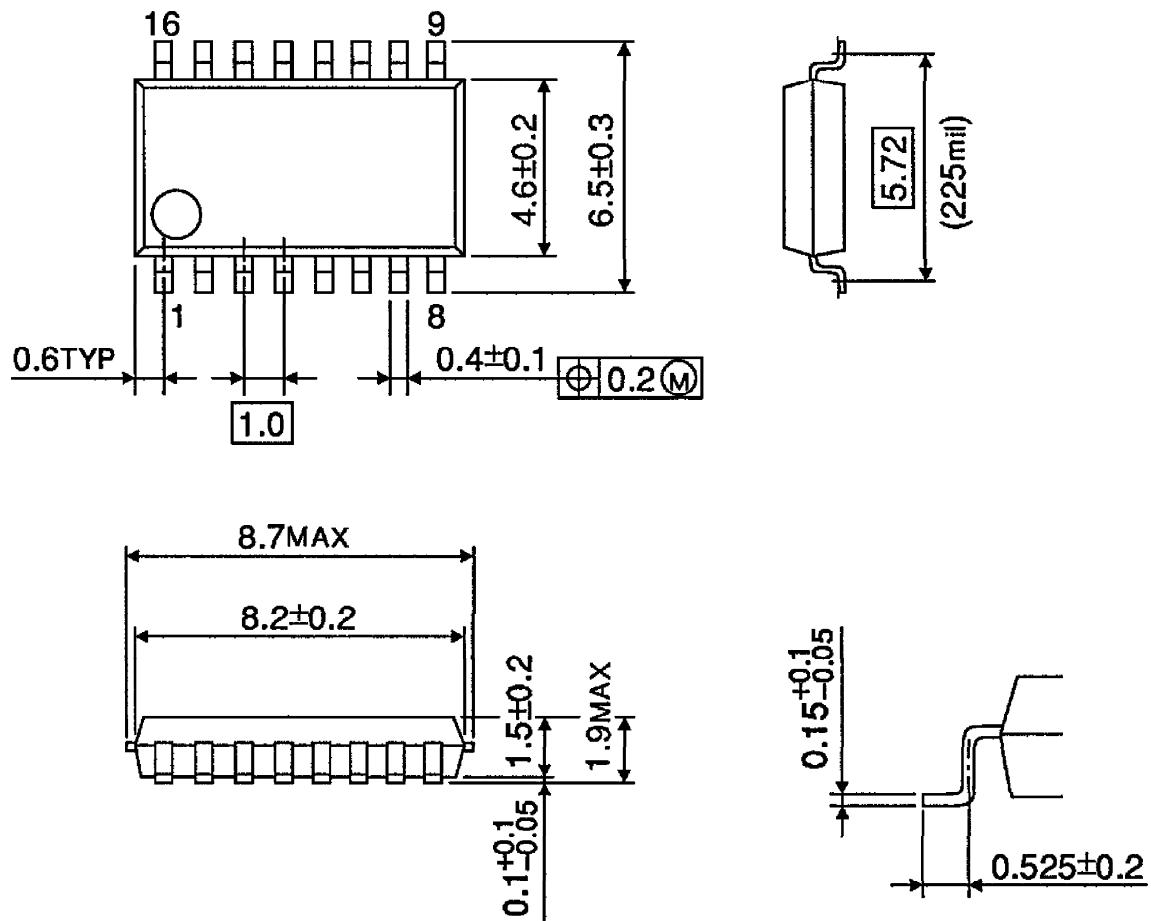
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ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	MEASURING Tr	TEST CIR- CUIT	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Current Gain	h _{FE} 1	RN6003	—	V _{CE} = -2V, I _C = -500mA	100	400	—	
	h _{FE} 2	RN2425	—	V _{CE} = -1V, I _C = -100mA	100	—	—	
Saturation Voltage	V _{CE} 1	RN6003	—	I _C = -500mA, I _B = -50mA	-0.5	—	—	V
	V _{CE} 2	RN2425	—	I _C = -50mA, I _B = -1mA	-0.5	—	—	V
Leakage Current	I _{OFF}	RN6003	—	V _{CC} = 7V	—	—	1.0	μA
		RN2425					0.61	kΩ
Input Resistance	R ₁	RN6003	—		7	10	13	kΩ
	R ₂	RN2425	—		0.329	0.47	0.61	kΩ
Resistance Ratio	R _{2'}	RN2425	—		0.042	—	0.051	
Transition Frequency	f _{T1}	RN6003	—	V _{CE} = -2V, I _C = -500mA	—	120	—	MHz
	f _{T2}	RN2425	—	V _{CE} = -5V, I _C = -100mA	—	200	—	MHz

OUTLINE DRAWING
SSOP16-P-225-1.00A

Unit : mm



Weight : 0.14g (Typ.)