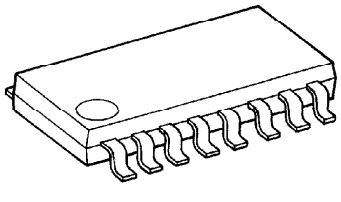
TENTATIVE TOSHIBA BIPOLAR LINEAR INTEGRATED CIRCUIT SILICON MULTI CHIP

TA8317F

LED DRIVER FOR CAMERA

TA8317F is Multi Chip IC incorporates 6 low saturation discrete transistors which equipped bias resistor. This IC is suitable for a camera use LED drive applications.



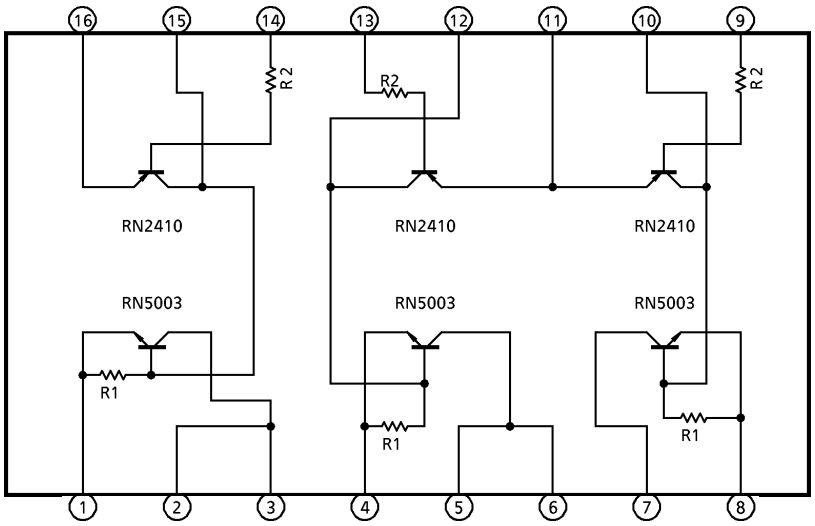
SSOP16-P-225-1.00A

Weight : 0.14g (Typ.)

FEATURES

- Suitable for LED drive circuit.
- Built-in Bias Resistor : R = 10kΩ
- Small package sealed : SSOP16
- Low saturation voltage

BLOCK DIAGRAM



980910EBA2

MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Supply Voltage	V_{CC}	7.0	V
Breakdown Voltage	V_{CBO}	10	V
	V_{CEO}	10	V
	V_{EBO}	5	V
Output Current (PNP / NPN)	I_{OUT}	100 / 2	mA / A
Base Current	I_B	0.4	A
Power Dissipation	P_D	490	mW
Junction Temperature	T_j	150	°C
Operating Temperature	T_{opr}	−20~60	°C
Storage Temperature	T_{stg}	−55~150	°C

ELECTRICAL CHARACTERISTICS (Ta = 25°C)

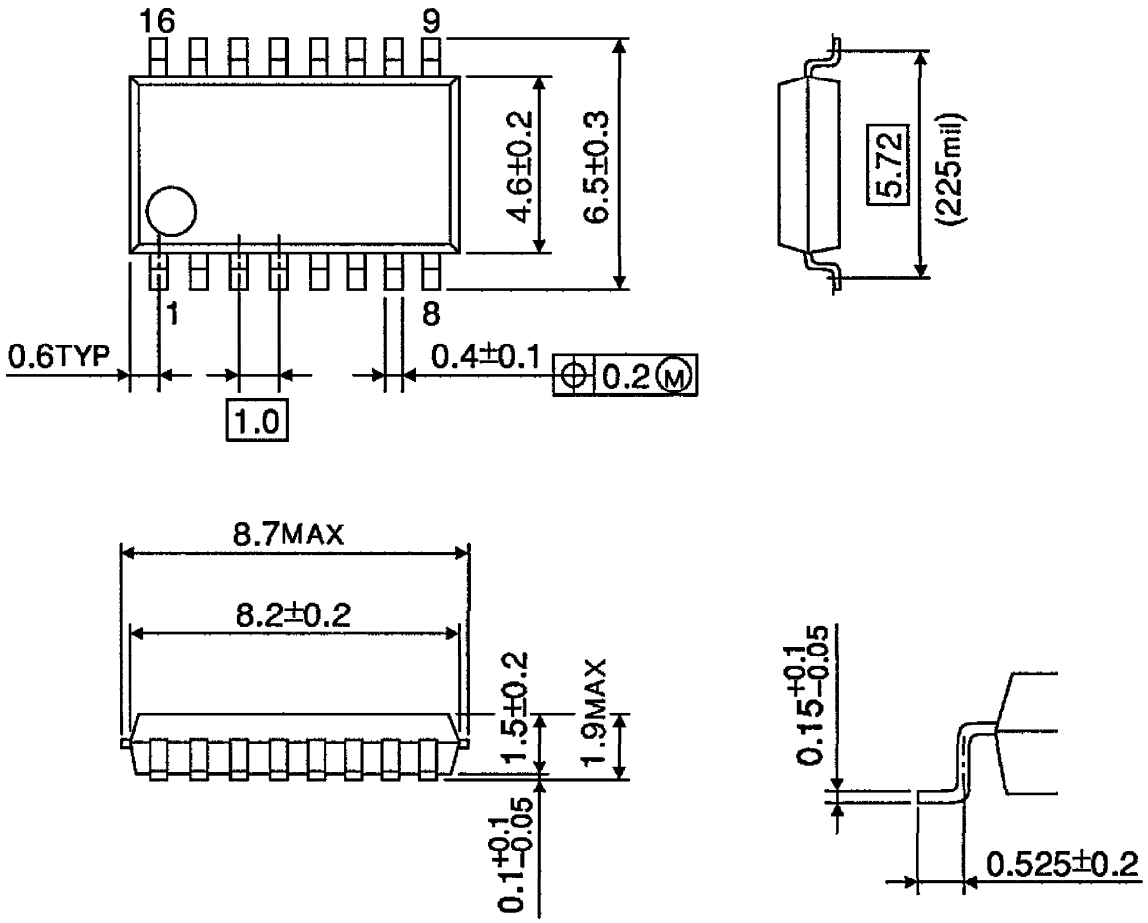
CHARACTERISTIC	SYMBOL	MEASURING Tr	TEST CIR-CUIT	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Current Gain	$h_{FE\ 1}$	RN5003	—	V_{CE} = 2V, I_C = 0.5A	100	—	400	
	$h_{FE\ 2}$	RN2410	—	V_{CE} = 5V, I_C = 1mA	120	—	400	
Saturation Voltage	$V_{sat\ 1}$	RN5003	—	I_C = 2A, I_B = 0.05A	—	—	0.5	V
	$V_{sat\ 2}$	RN2410	—	I_C = 5mA, I_B = 0.25mA	—	—	0.3	V
Transition Frequency	f_{T1}	RN5003	—	V_{CE} = 2V, I_C = 0.5mA	—	—	120	MHz
	f_{T2}	RN2410	—	V_{CE} = 10V, I_C = 5mA	—	—	200	MHz
Resistance Value	R_1	RN5003	—		7	10	13	kΩ
	R_2	RN2410	—		3.29	4.7	6.11	kΩ

980910EBA2'

OUTLINE DRAWING

SSOP16-P-225-1.00A

Unit : mm



Weight : 0.14g (Typ.)