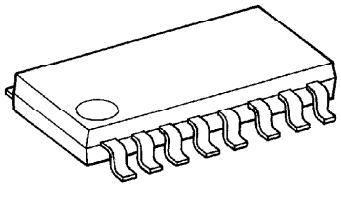
TENTATIVE TOSHIBA BIPOLAR LINEAR INTEGRATED CIRCUIT SILICON MULTI CHIP

TA8313F

LED DRIVER FOR CAMERA

TA8313F is Multi Chip IC incorporates 4 low saturation discrete transistors and one Zener Diode.
This IC is suitable for a camera use LED drive applications.



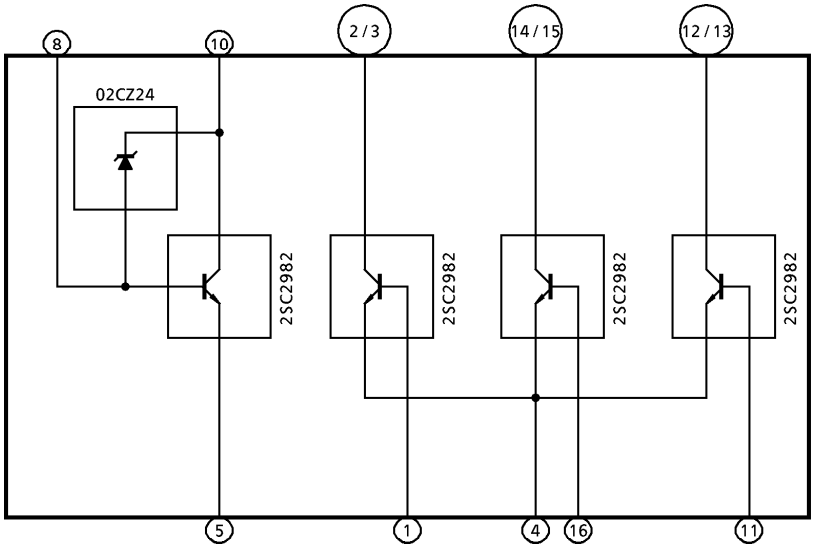
SSOP16-P-225-1.00A

Weight : 0.14g (Typ.)

FEATURES

- Suitable for LED drive circuit.
- Low Saturation voltage
- Small package sealed

BLOCK DIAGRAM



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MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Supply Voltage	V_{CC}	30	V
Breakdown Voltage	V_{CBO}	30	V
	V_{CEO}	10	V
	V_{EBO}	6	V
Output Current	I_{OUT}	2	A
Base Current	I_B	0.4	A
Power Dissipation	P_D	330	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 / Zd	TEST CIR-CUIT	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Current Gain	h_{FE}	2SC2982	—	V_{CE} = 1V, I_C = 0.5A	140	—	600	
Saturation Voltage	V_{CE}	2SC2982	—	I_C = 2A, I_B = 500mA	—	—	0.5	V
Leakage Current	I_{OFF}	2SC2982	—	V_{CC} = 7V	—	—	1	μA
Transition Frequency	f_T	2SC2982	—	V_{CE} = 1V, I_C = 0.5A	—	150	—	MHz
Zener Voltage	V_Z	02CZ24	—	I_Z = 5mA	22.8	—	25.6	V
Operational Resistance	Z_Z	02CZ24	—	I_Z = 5mA	—	—	40	Ω
Activating Resistance	Z_{ZK}	02CZ24	—	I_Z = 5mA	—	—	200	Ω
Reverse Current	I_R	02CZ24	—	V_F = 19V	—	—	0.5	μA

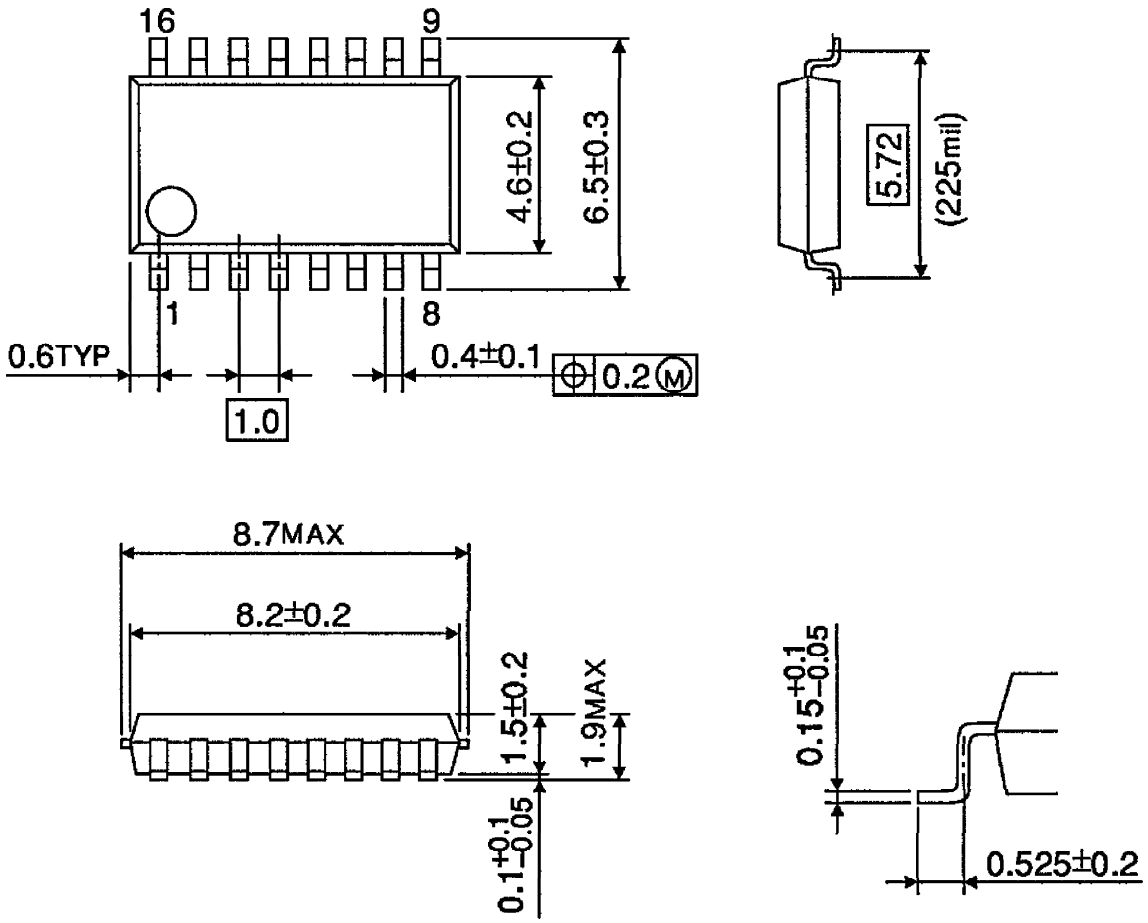
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OUTLINE DRAWING

SSOP16-P-225-1.00A

Unit : mm



Weight : 0.14g (Typ.)