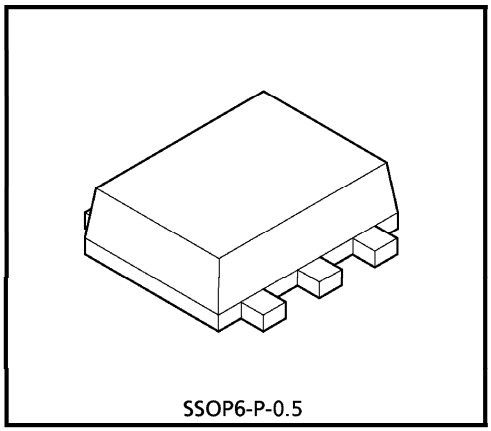
TOSHIBA BIPOLAR LINEAR INTEGRATED CIRCUIT SILICON MONOLITHIC

TA4015FE

TA4015FE USE FOR CRYSTAL OSCILLATORS

FEATURES

- Bias resistors, a transistor for oscillation and a transistor for buffer are packed in one package ; hence, TA4015FT can easily compose a crystal oscillator.
- TA4015FE comes with a 6-pin thin ultra-compact package and is suitable for super-high density mounting.



SSOP6-P-0.5

Weight : 0.003 g (Typ.)

MAXIMUM RATINGS (Ta = 25°C)

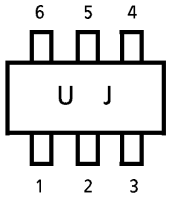
CHARACTERISTIC	SYMBOL	RATING	UNIT
Power Supply Voltage	V_{CC}	6	V
Circuit Current	I_{CC}	9	mA
Total Power Dissipation	P_D	100	mW
Junction Temperature	T_j	125	°C
Storage Temperature	T_{stg}	−55~125	°C

ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Circuit Current	I_{CC}	V_{CC} = 3.0 V	1.10	1.32	1.52	mA
Oscillator Base Voltage	V_{OSCB}	V_{CC} = 3.0 V	1.65	1.71	1.79	V
Oscillator Emitter Voltage	V_{OSCE}	V_{CC} = 3.0 V	0.92	0.99	1.06	V
Buffer Base Voltage	V_{BuffB}	V_{CC} = 3.0 V	2.20	2.28	2.36	V
Fout Voltage	V_{Fout}	V_{CC} = 3.0 V	1.95	2.02	2.10	V

CHARACTERISTIC	SYMBOL	TYP.	UNIT
R1 Resistance	R_1	7.5	kΩ
R2 Resistance	R_2	6.8	kΩ
R3 Resistance	R_3	24	kΩ
R4 Resistance	R_4	820	Ω
R5 Resistance	R_5	820	Ω

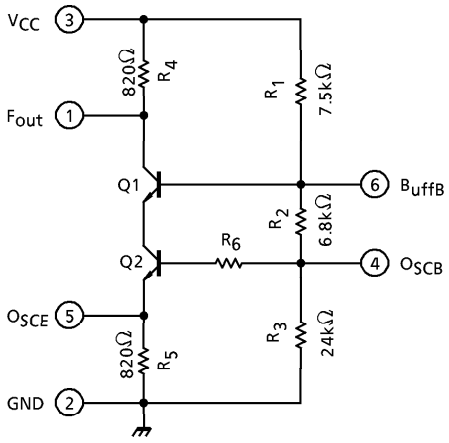
MARKING



CAUTION

Because of this product structure, when handling this product, please be sure to protect work desk, human body and soldering irons from electrostatics.

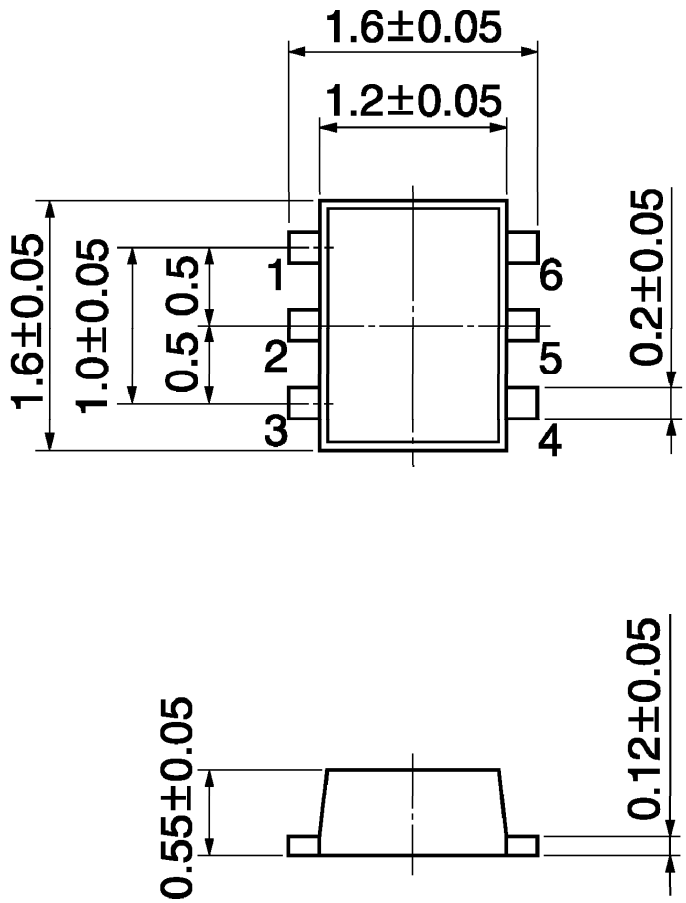
EQUIVALENT CIRCUIT DIAGRAM



PACKAGE DIMENSIONS

SSOP6-P-0.5

Unit : mm



Weight : 0.003 g (Typ.)

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