

TOSHIBA TRANSISTOR SILICON NPN EPITAXIAL PLANAR TYPE

2SC4246

TV TUNER, UHF OSCILLATOR APPLICATIONS (COMMON BASE)

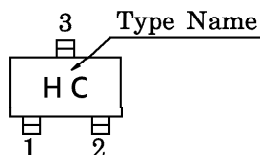
TV TUNER, UHF CONVERTER APPLICATIONS (COMMON BASE)

- Transition Frequency is High and Dependent on Current Excellently.

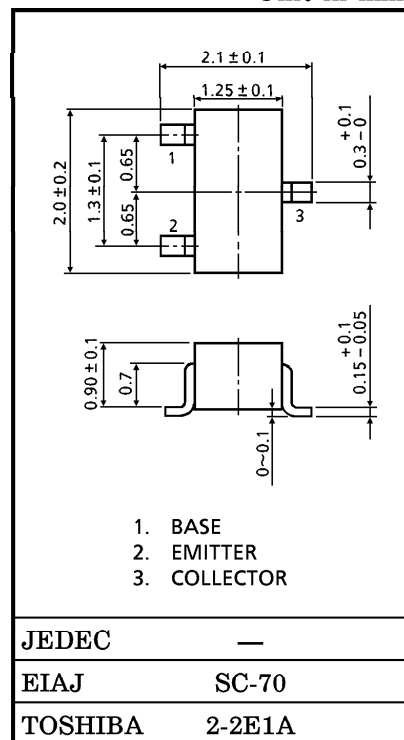
MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V _{CB0}	30	V
Collector-Emitter Voltage	V _{CEO}	15	V
Emitter-Base Voltage	V _{EBO}	3	V
Base Current	I _B	25	mA
Collector Current	I _C	50	mA
Collector Power Dissipation	P _C	100	mW
Junction Temperature	T _j	125	°C
Storage Temperature Range	T _{stg}	-55~125	°C

Marking



Unit in mm



Weight : 0.006g

ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I _{CB0}	V _{CB} = 15V, I _E = 0	—	—	0.1	μA
Emitter Cut-off Current	I _{EBO}	V _{EB} = 3V, I _C = 0	—	—	1.0	μA
Collector Emitter Breakdown Voltage	V (BR) CEO	I _C = 1mA, I _B = 0	15	—	—	V
DC Current Gain	h _{FE}	V _{CE} = 3V, I _C = 8mA	60	150	320	—
Transition Frequency	f _T	V _{CE} = 10V, I _C = 8mA, f = 200MHz	1100	1500	—	MHz
Output Capacitance	C _{ob}	V _{CB} = 10V, I _E = 0, f = 1MHz	—	0.9	1.3	pF
Collector-Base Time Constant	C _{c.rbb'}	V _{CB} = 10V, I _C = 8mA, f = 30MHz	—	7	12	ps

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