

TOSHIBA TRANSISTOR SILICON NPN EPITAXIAL PLANAR TYPE

2SC4527

TV TUNER, UHF OSCILLATOR APPLICATIONS (COMMON BASE)

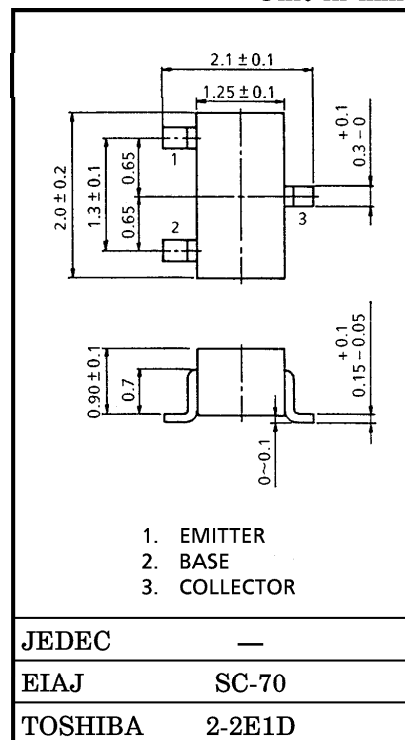
TV TUNER, UHF CONVERTER APPLICATIONS (COMMON BASE)

Unit in mm

- Transition Frequency is High and Dependent on Current Excellently.
- Exchange of Emitter for Base in 2SC4246.

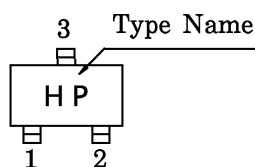
MAXIMUM RATINGS (Ta = 25°C)

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



Weight : 0.006g

Marking



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	1100	1500	—	MHz
Collector 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

961001EAA2

- TOSHIBA is continually working to improve the quality and the reliability of its products. Nevertheless, semiconductor devices in general can malfunction or fail due to their inherent electrical sensitivity and vulnerability to physical stress. It is the responsibility of the buyer, when utilizing TOSHIBA products, to observe standards of safety, and to avoid situations in which a malfunction or failure of a TOSHIBA product could cause loss of human life, bodily injury or damage to property. In developing your designs, please ensure that TOSHIBA products are used within specified operating ranges as set forth in the most recent products specifications. Also, please keep in mind the precautions and conditions set forth in the TOSHIBA Semiconductor Reliability Handbook.
- The information contained herein is presented only as a guide for the applications of our products. No responsibility is assumed by TOSHIBA CORPORATION for any infringements of intellectual property or other rights of the third parties which may result from its use. No license is granted by implication or otherwise under any intellectual property or other rights of TOSHIBA CORPORATION or others.
- The information contained herein is subject to change without notice.

