

TOSHIBA TRANSISTOR SILICON NPN EPITAXIAL PLANAR TYPE

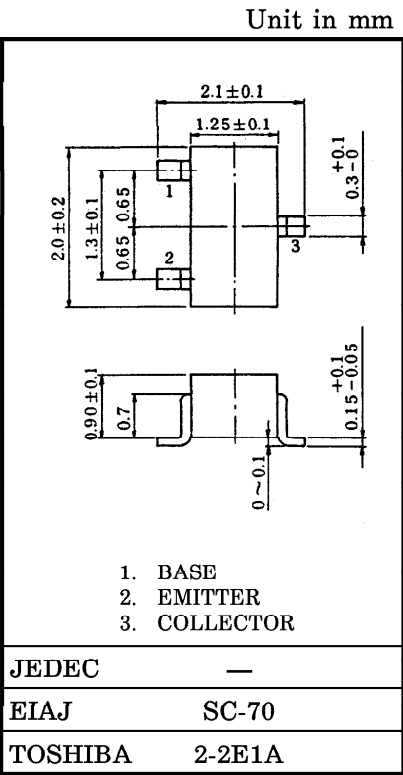
2SC4246

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)

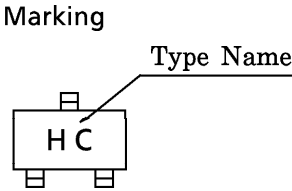
CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	VCBO	30	V
Collector-Emitter Voltage	VCEO	15	V
Emitter-Base Voltage	VEBO	3	V
Base Current	IB	25	mA
Collector Current	IC	50	mA
Collector Power Dissipation	PC	100	mW
Junction Temperature	Tj	125	°C
Storage Temperature Range	Tstg	-55~125	°C



ELECTRICAL CHARACTERISTICS (Ta = 25°C)

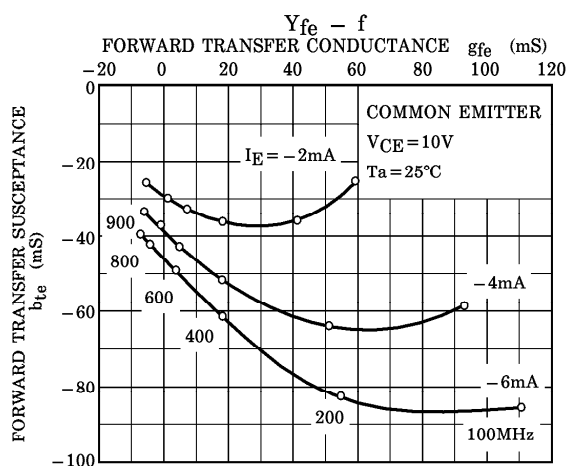
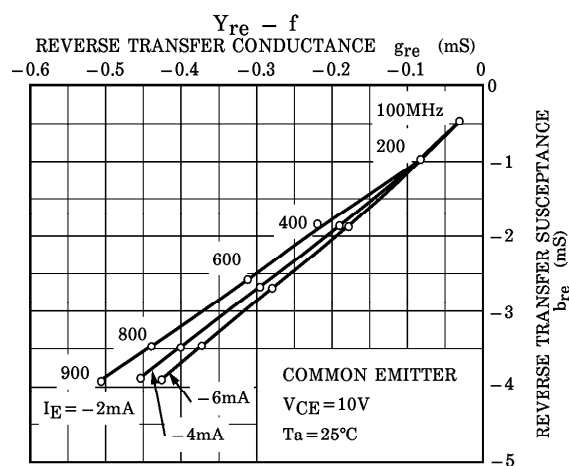
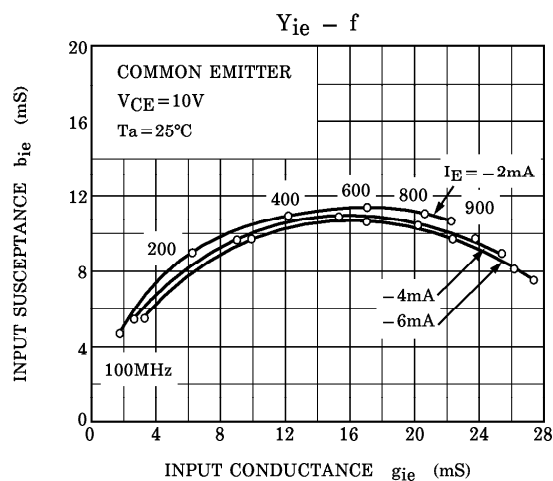
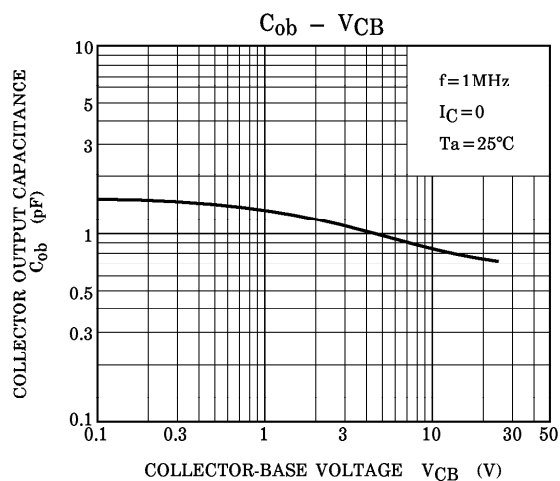
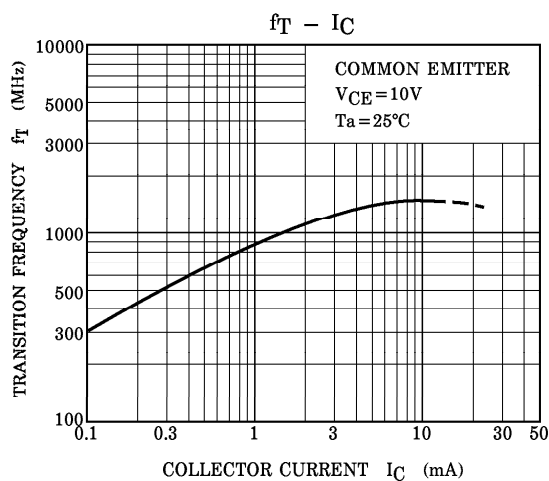
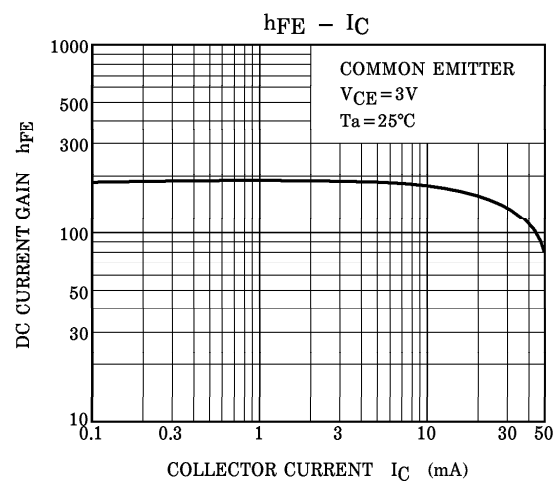
Weight : 0.006g

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	ICBO	VCB=15V, IE=0	—	—	0.1	μA
Emitter Cut-off Current	IEBO	VEB=3V, IC=0	—	—	1.0	μA
Collector-Emitter Breakdown Voltage	V(BR)CEO	IC=1mA, IB=0	15	—	—	V
DC Current Gain	hFE	VCE=3V, IC=8mA	60	150	320	—
Transition Frequency	fT	VCE=10V, IC=8mA, f=200MHz	1100	1500	—	MHz
Output Capacitance	Cob	VCB=10V, IE=0, f=1MHz	—	0.9	1.3	pF
Collector-Base Time Constant	Cc·rbb'	VCB=10V, IC=8mA, f=30MHz	—	7	12	ps



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