

TOSHIBA**2SC3862**

TOSHIBA TRANSISTOR SILICON NPN EPITAXIAL PLANAR TYPE

2SC3862

TV TUNER, UHF MIXER APPLICATIONS

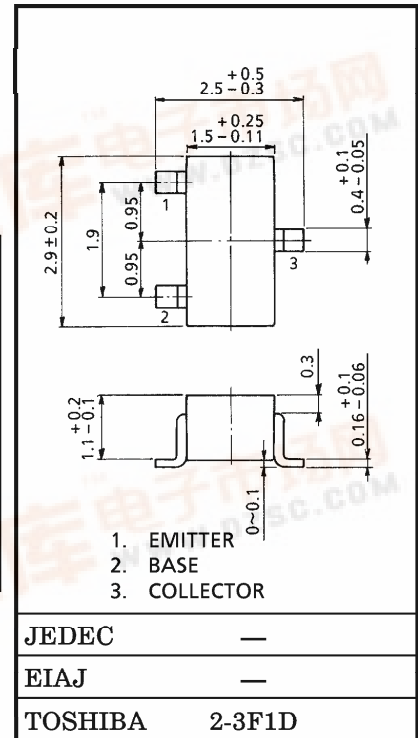
VHF~UHF BAND RF AMPLIFIER APPLICATIONS

Unit in mm

- Exchange of Emitter for Base in 2SC3120

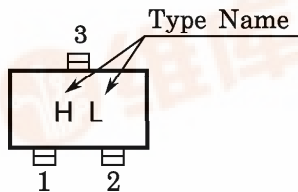
MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V _{CBO}	30	V
Collector-Emitter Voltage	V _{CEO}	15	V
Emitter-Base Voltage	V _{EBO}	3	V
Collector Current	I _C	50	mA
Base Current	I _B	25	mA
Collector Power Dissipation	P _C	150	mW
Junction Temperature	T _j	125	°C
Storage Temperature Range	T _{stg}	-55~125	°C



Weight : 0.012g

Marking

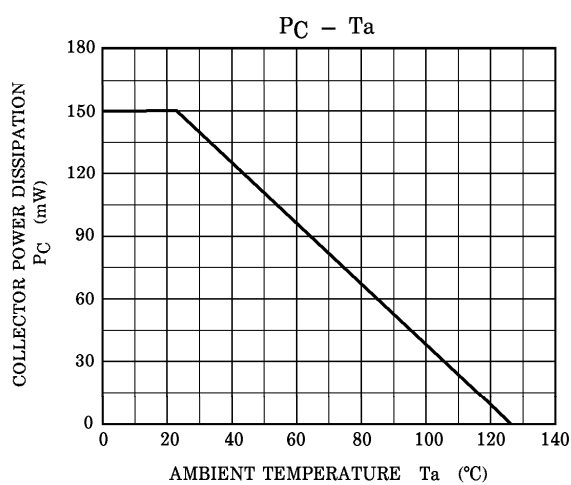
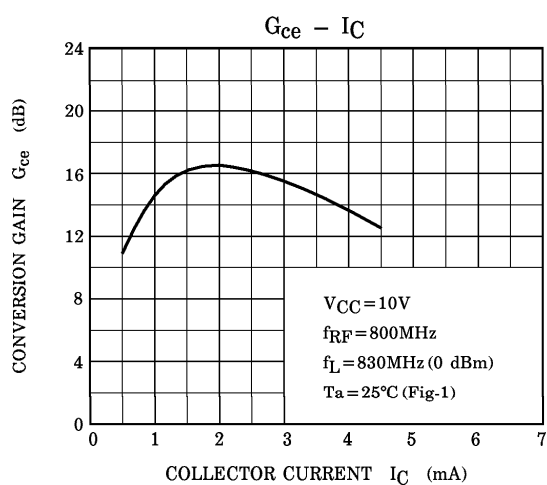
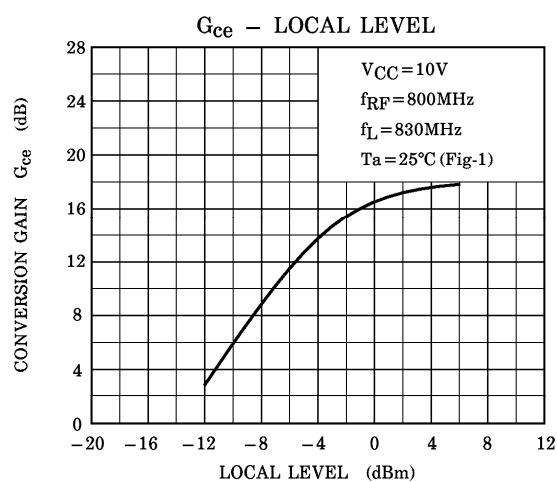
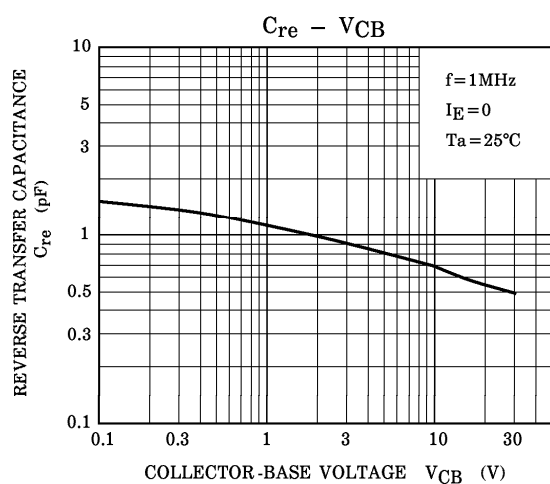
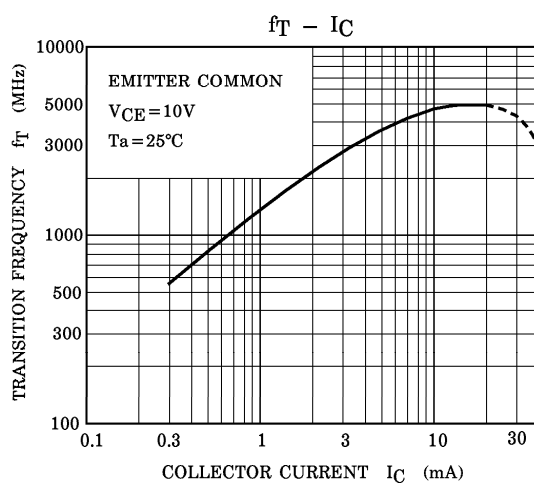
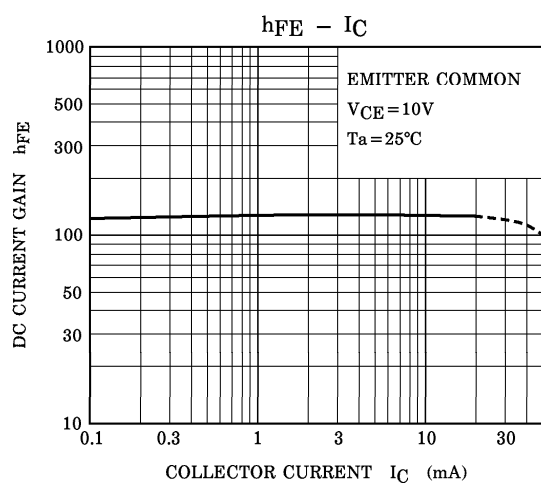


ELECTRICAL CHARACTERISTICS (Ta = 25°C)

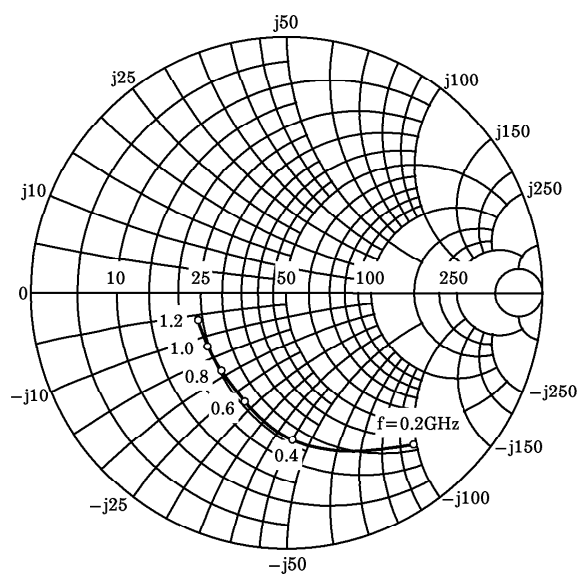
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I _{CBO}	V _{CB} =30V, I _E =0	—	—	0.1	μA
Emitter Cut-off Current	I _{EBO}	V _{EB} =2V, I _C =0	—	—	1.0	μA
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	I _C =1mA, I _B =0	15	—	—	V
DC Current Gain	h _{FE}	V _{CE} =10V, I _C =5mA	40	100	200	V
Reverse Transfer Capacitance	C _{re}	V _{CB} =10V, I _E =0V, f=1MHz	—	0.6	0.9	pF
Transition Frequency	f _T	V _{CE} =10V, I _C =2mA	1500	2400	—	MHz

961001EAA1

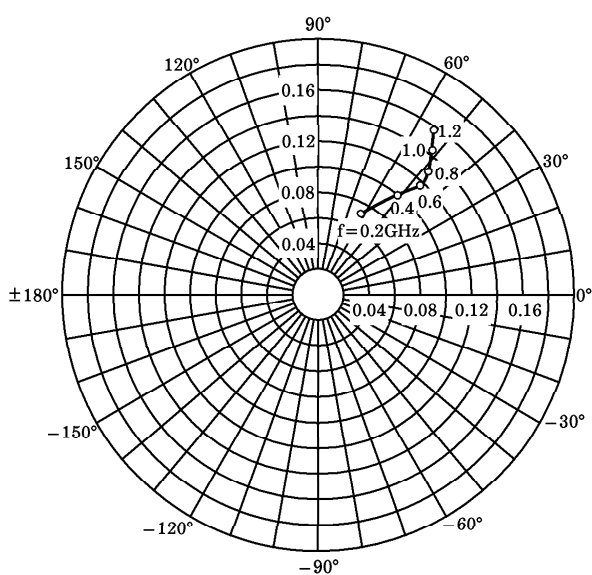
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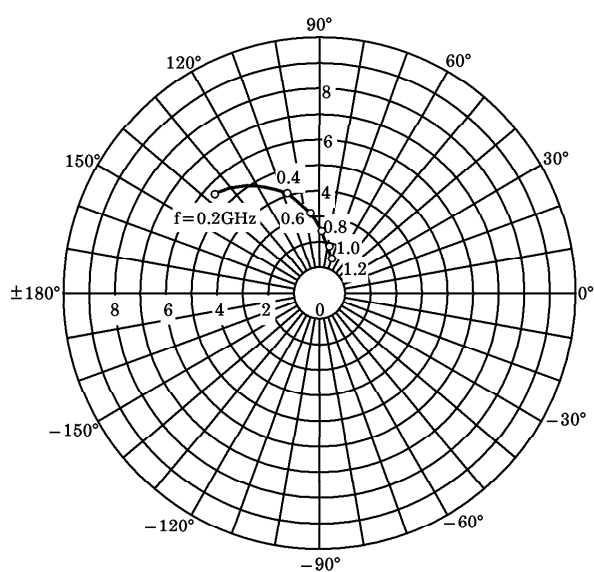
S_{11e}
 $V_{CE} = 10V$
 $I_C = 2mA$
 $T_a = 25^\circ C$
 (UNIT : Ω)



S_{12e}
 $V_{CE} = 10V$
 $I_C = 2mA$
 $T_a = 25^\circ C$



S_{21e}
 $V_{CE} = 10V$
 $I_C = 2mA$
 $T_a = 25^\circ C$



S_{22e}
 $V_{CE} = 10V$
 $I_C = 2mA$
 $T_a = 25^\circ C$
 (UNIT : Ω)

