

TOSHIBA Transistor Silicon NPN Epitaxial Planar Type

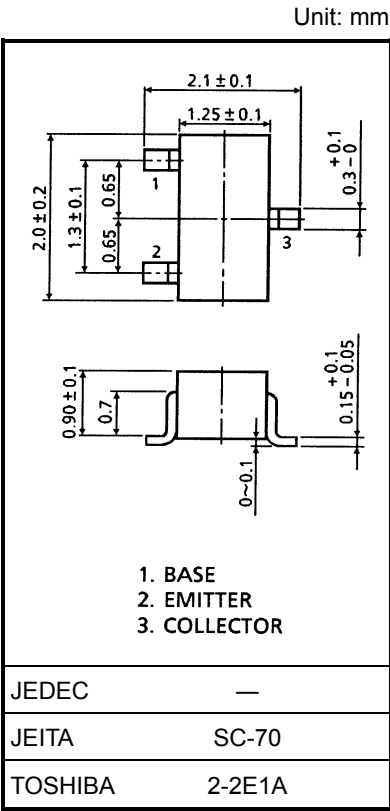
2SC4248

TV Tuner, UHF Oscillator Applications
(common collector)

- Transition frequency is high and dependent on current excellently.

Maximum Ratings (Ta = 25°C)

Characteristics	Symbol	Rating	Unit
Collector-base voltage	V _{CBO}	20	V
Collector-emitter voltage	V _{CEO}	12	V
Emitter-base voltage	V _{EBO}	3	V
Base current	I _B	15	mA
Collector current	I _C	30	mA
Collector power dissipation	P _C	100	mW
Junction temperature	T _j	125	°C
Storage temperature range	T _{stg}	-55~125	°C

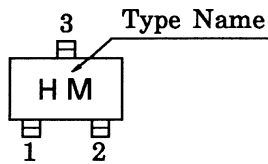


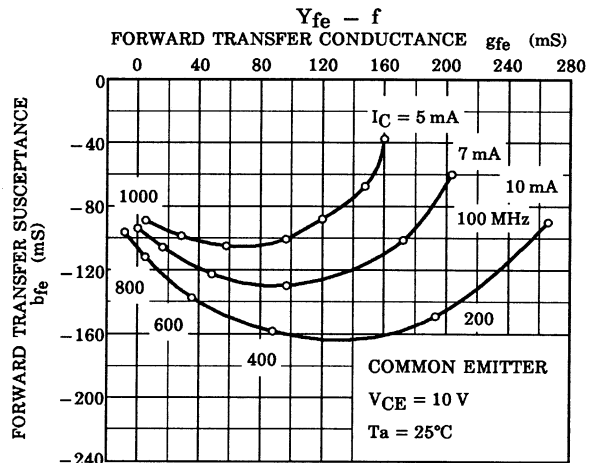
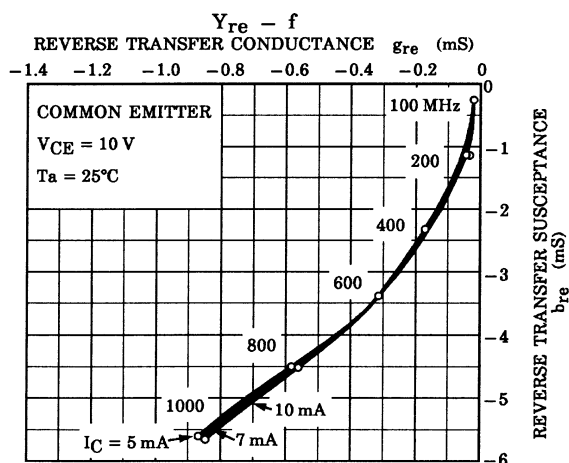
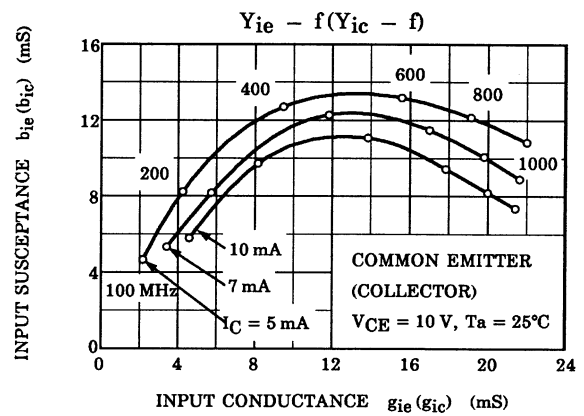
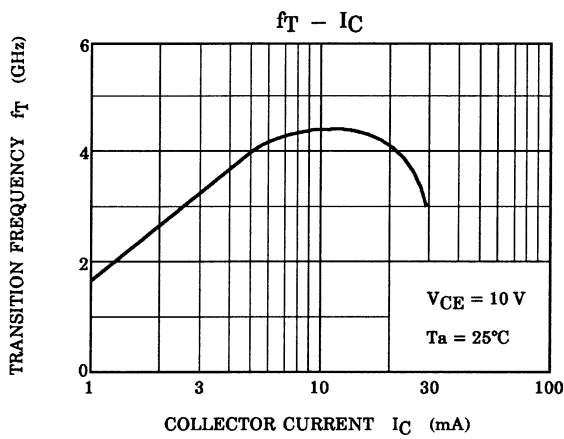
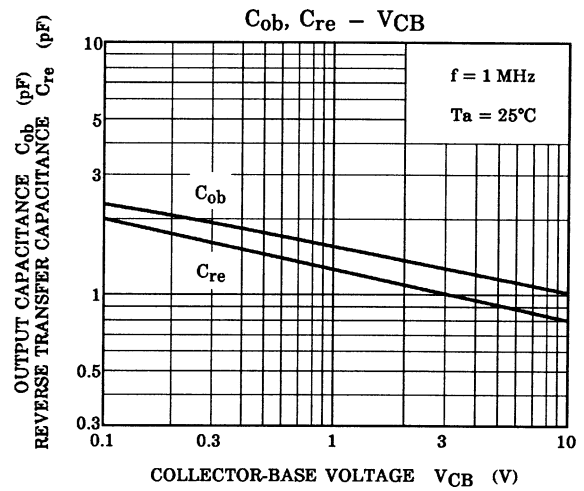
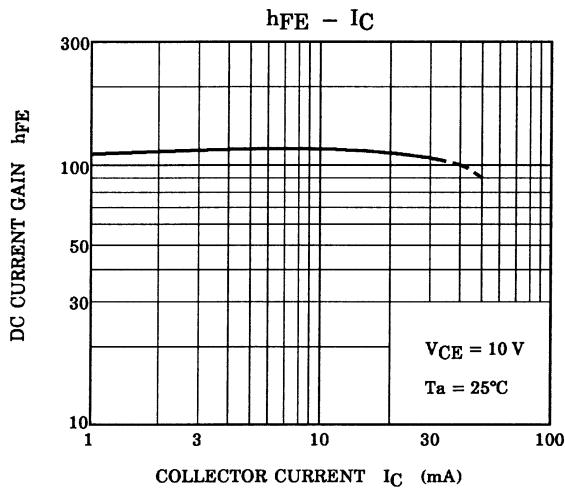
Electrical Characteristics (Ta = 25°C)

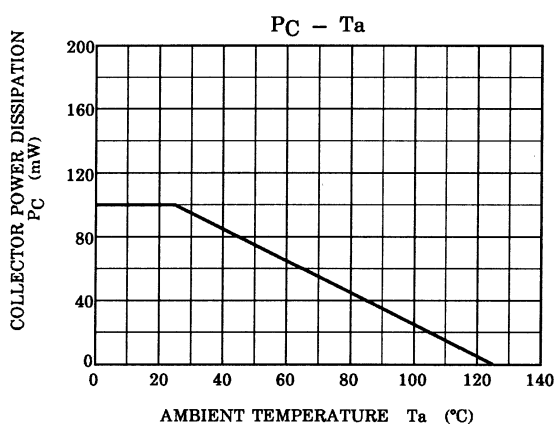
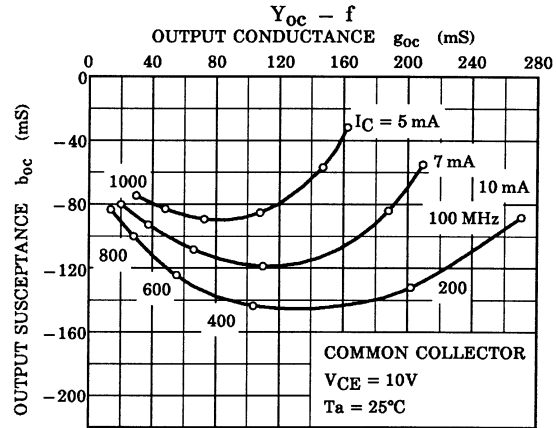
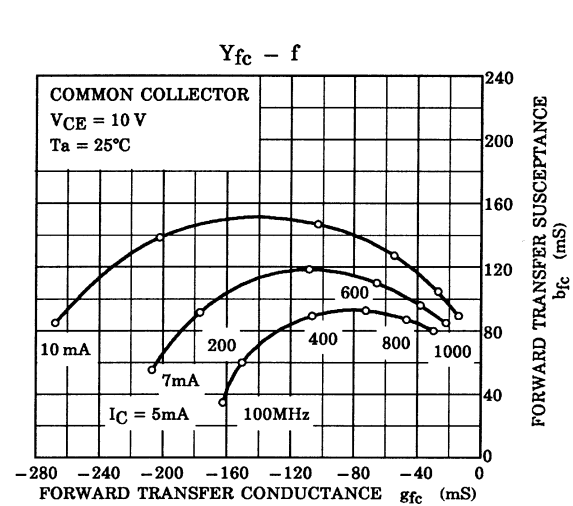
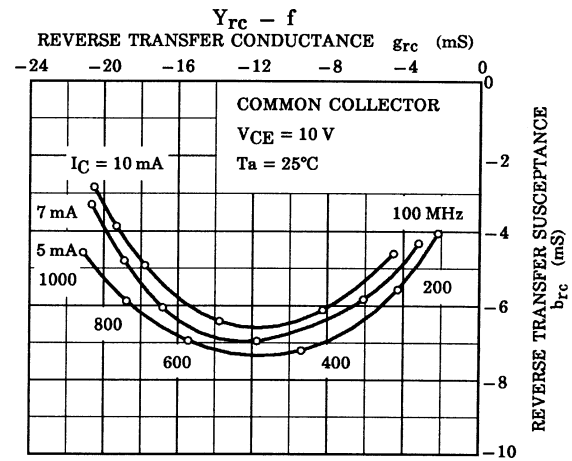
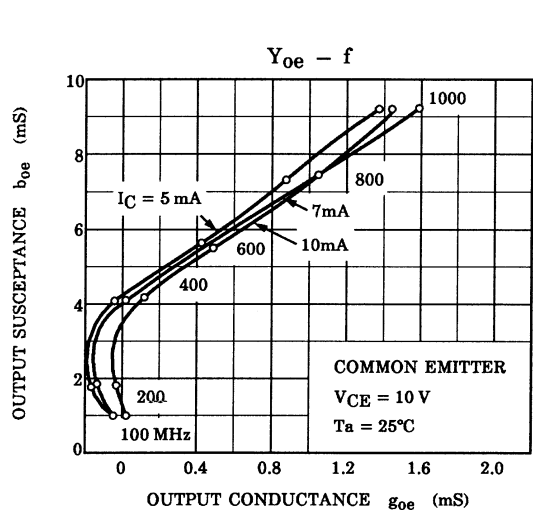
Weight: 0.006 g (typ.)

Characteristics	Symbol	Test Condition	Min	Typ.	Max	Unit
Collector cut-off current	I _{CBO}	V _{CB} = 10 V, I _E = 0	—	—	0.1	μA
Emitter cut-off current	I _{EBO}	V _{EB} = 2 V, I _C = 0	—	—	1.0	μA
Collector-emitter breakdown voltage	V _(BR) CEO	I _C = 1 mA, I _B = 0	12	—	—	V
DC current gain	h _{FE}	V _{CE} = 10 V, I _C = 5 mA	70	—	130	
Transition frequency	f _T	V _{CE} = 10 V, I _C = 10 mA	3	4	—	GHz
Output capacitance	C _{ob}	V _{CB} = 10 V, I _E = 0, f = 1 MHz	—	1.05	1.35	pF
Collector-base time constant	C _{c-rbb'}	V _{CB} = 10 V, I _C = 5 mA, f = 30 MHz	—	4.5	9.0	ps

Marking







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