TOSHIBA Transistor Silicon NPN Epitaxial Planar Type

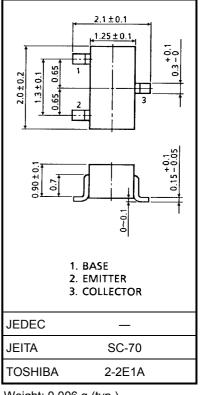
2SC4251

TV Tuner, VHF Oscillator Applications

Unit: mm

Maximum Ratings (Ta = 25°C)

Characteristics	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	IC	50	mA
Base current	Ι _Β	25	mA
Collector power dissipation	P _C	100	mW
Junction temperature	Tj	125	°C
Storage temperature range	T _{stg}	-55~125	°C



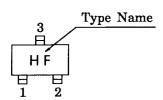
Weight: 0.006 g (typ.)

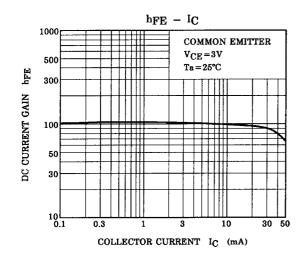
Electrical Characteristics (Ta = 25°C)

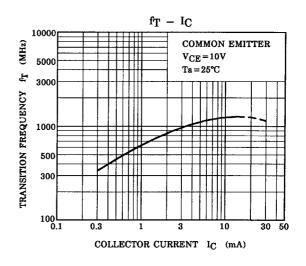
Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Collector cut-off current	I _{CBO}	V _{CB} = 15 V, I _E = 0	_	_	0.1	μА
Emitter cut-off current	I _{EBO}	V _{EB} = 3 V, I _C = 0	_	_	1.0	μΑ
Collector-emitter breakdown voltage	V (BR) CEO	$I_C = 1 \text{ mA}, I_B = 0$	15	_	_	V
DC current gain	h _{FE}	$V_{CE} = 3 \text{ V}, I_{C} = 8 \text{ mA}$	40	100	200	
Transition frequency	f _T	V _{CE} = 10 V, I _C = 8 mA	650	1100	_	MHz
Collector output capacitance	C _{ob}	V _{CB} = 10 V, I _E = 0, f = 1 MHz	_	0.9	1.3	pF
Collector-base time constant	C _c .rbb'	$V_{CB} = 10 \text{ V}, I_{C} = 8 \text{ mA}, f = 30 \text{ MHz}$	_	7	12	ps

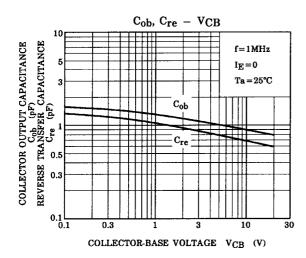
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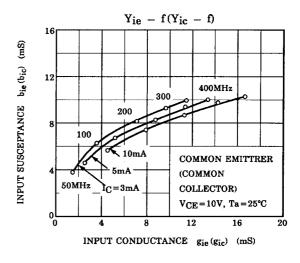
Marking

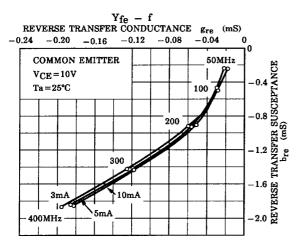


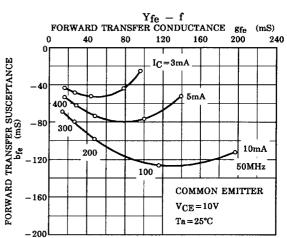




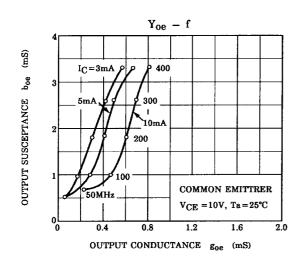


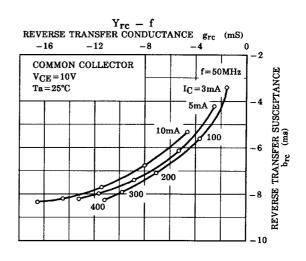


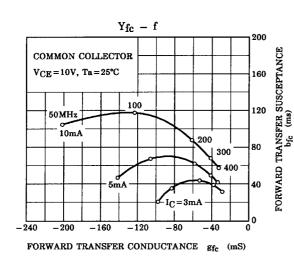


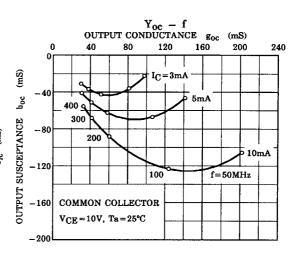


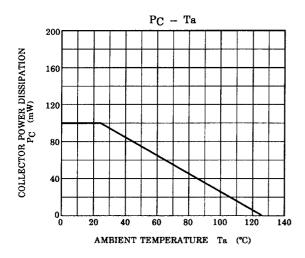
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