2SC4246

TOSHIBA Transistor Silicon NPN Epitaxial Planar Type



TV Tuner, UHF Oscillator Applications (common base) TV Tuner, UHF Converter Applications (common base)

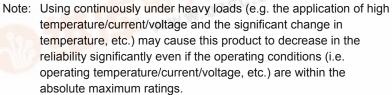
Transition frequency is high and dependent on current excellently.

Absolute Maximum Ratings ($Ta = 25^{\circ}C$)

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TOSHIBA

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



Please design the appropriate reliability upon reviewing the

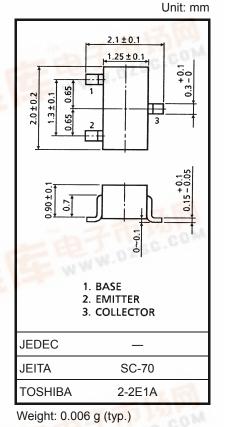
Toshiba Semiconductor Reliability Handbook ("Handling Precautions"/"Derating Concept and Methods") and individual reliability data (i.e. reliability test report and estimated failure rate, etc).

Electrical Characteristics (Ta = 25°C)

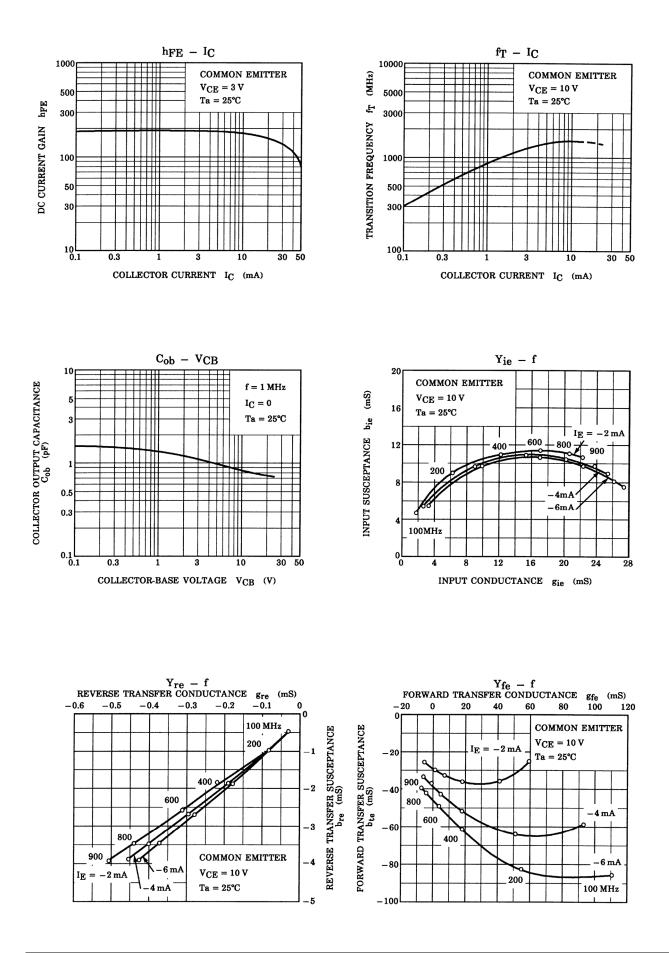
Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Collector cut-off current	I _{CBO}	$V_{CB} = 15 \text{ V}, \text{ I}_{E} = 0$	_	_	0.1	μA
Emitter cut-off current	I _{EBO}	$V_{EB} = 3 V, I_{C} = 0$			1.0	μA
Collector-emitter breakdown voltage	V (BR) CEO	I _C = 1 mA, I _B = 0	15	4		V
DC current gain	h _{FE}	V _{CE} = 3 V, I _C = 8 mA	60	150	320	
Transition frequency	f _T	V _{CE} = 10 V, I _C = 8 mA	1100	1500	_	MHz
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 .r _{bb} '	V _{CB} = 10 V, I _C = 8 mA, f = 30 MHz	_	7	12	ps

Marking

Type Name 3 HC

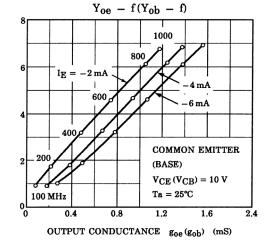


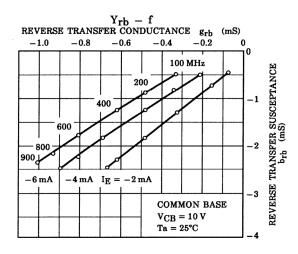
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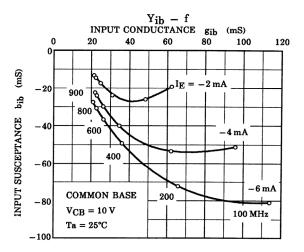


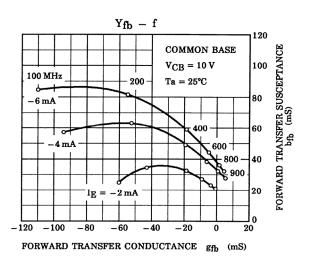
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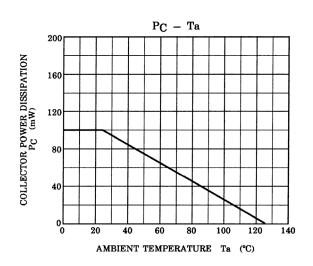












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RESTRICTIONS ON PRODUCT USE

Handbook" etc.

20070701-EN GENERAL

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