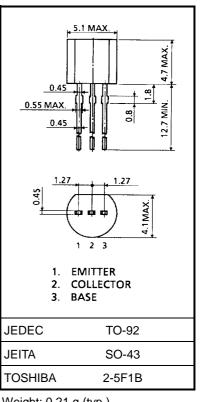
TOSHIBA Transistor Silicon NPN Epitaxial Planar Type

2SC2349

TV VHF Oscillator Applications

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	Ι _C	50	mA
Emitter current	١ _E	-50	mA
Collector power dissipation	P _C	250	mW
Junction temperature	Тј	125	°C
Storage temperature range	T _{stg}	-55~125	°C



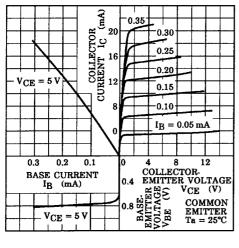
Electrical Characteristics (Ta = 25°C)

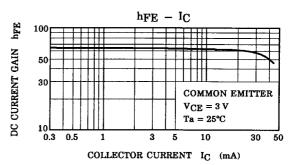
vveight:	0.21	g (typ.)	

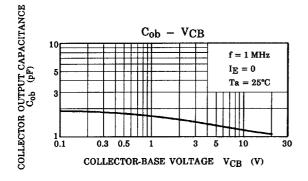
Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Collector cut-off current	I _{CBO}	$V_{CB} = 15 \text{ V}, \text{ I}_{E} = 0$	_	_	0.1	μA
Emitter cut-off current	I _{EBO}	$V_{EB} = 3 V, I_{C} = 0$			1.0	μA
Collector-emitter breakdown voltage	V (BR) CEO	$I_C = 1 \text{ mA}, I_B = 0$	15			V
DC current gain	h _{FE}	$V_{CE} = 3 \text{ V}, \text{ I}_{C} = 8 \text{ mA}$	20	_	_	
Transition frequency	f _T	$V_{CE} = 10 \text{ V}, I_{C} = 8 \text{ mA}$	650	_	_	MHz
Collector output capacitance	C _{ob}	$V_{CB}=10~V,~I_{E}=0,~f=1~MHz$		1.2	1.5	pF
Collector-base time constant	C _c .r _{bb'}	V_{CB} = 10 V, I_{C} = 8 mA, f = 30 MHz			20	ps

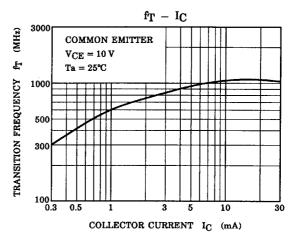
Unit: mm

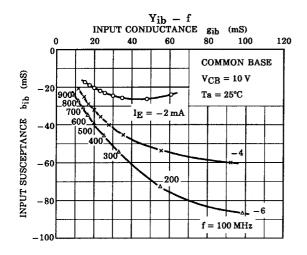
STATIC CHARACTERISTICS

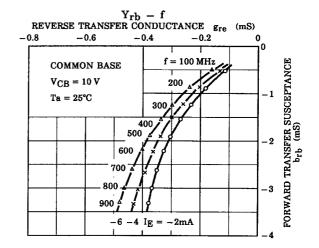




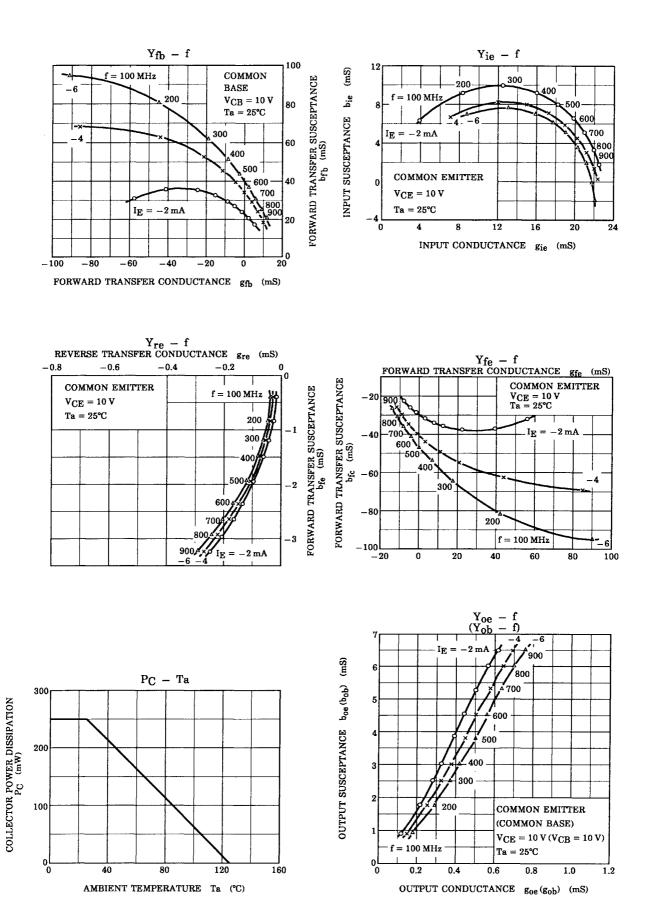








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2003-03-19

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