TOSHIBA Transistor Silicon PNP Epitaxial Type (PCT process)

2SA1621

Audio Power Amplifier Applications

High hFE: $hFE = 100 \sim 320$

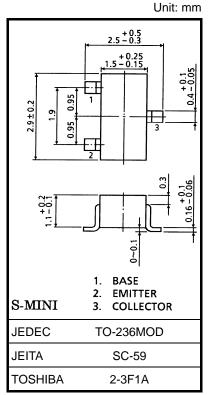
• Complementary to 2SC4210

Absolute Maximum Ratings (Ta = 25°C)

Characteristics	Symbol	Rating	Unit
Collector-base voltage	V _{CBO}	-35	V
Collector-emitter voltage	V _{CEO}	-30	V
Emitter-base voltage	V _{EBO}	-5	V
Collector current	Ι _C	-800	mA
Base current	Ι _Β	-160	mA
Collector power dissipation	P _C	200	mW
Junction temperature	Tj	150	°C
Storage temperature range	T _{stg}	-55~150	°C

Note: Using continuously under heavy loads (e.g. the application of high temperature/current/voltage and the significant change in temperature, etc.) may cause this product to decrease in the reliability significantly even if the operating conditions (i.e. operating temperature/current/voltage, etc.) are within the absolute maximum ratings.

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).



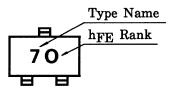
Weight: 0.012 g (typ.)

Electrical Characteristics (Ta = 25°C)

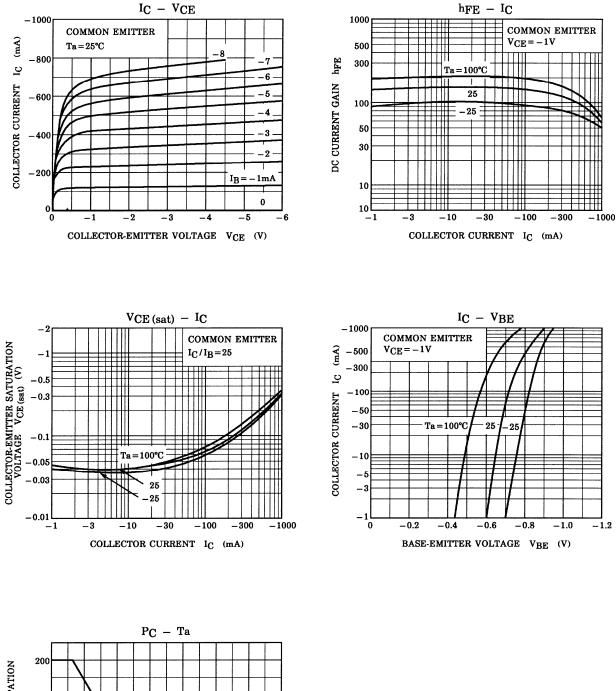
Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Collector cut-off current	I _{CBO}	$V_{CB} = -35 \text{ V}, \text{ I}_E = 0$	_		-0.1	μΑ
Emitter cut-off current	I _{EBO}	$V_{EB} = -5 \text{ V}, \text{ I}_{C} = 0$	_	_	-0.1	μA
Collector-emitter breakdown voltage	V (BR) CEO	$I_{C} = -10 \text{ mA}, I_{B} = 0$	-30	—	—	V
DC current gain	h _{FE (1)} (Note)	$V_{CE} = -1 V$, $I_{C} = -100 mA$	100	_	320	
	h _{FE (2)}	$V_{CE} = -1 V, I_C = -700 mA$	35	—	—	
Collector-emitter saturation voltage	V _{CE (sat)}	$I_{C} = -500 \text{ mA}, I_{B} = -20 \text{ mA}$	_	—	-0.7	V
Base-emitter voltage	V _{BE}	$V_{CE} = -1 V, I_{C} = -10 mA$	-0.5	—	-0.8	V
Transition frequency	f _T	$V_{CE} = -5 \text{ V}, \text{ I}_{C} = -10 \text{ mA}$		120	_	MHz
Collector output capacitance	C _{ob}	$V_{CB} = -10 \text{ V}, \text{ I}_{E} = 0, \text{ f} = 1 \text{ MHz}$	_	19	_	pF

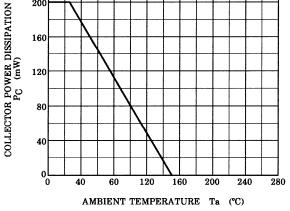
Note: hFE (1) classification O: 100~200, Y: 160~320

Marking



TOSHIBA





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