TOSHIBA Transistor Silicon PNP Epitaxial Type (PCT process)

2SA1621

Audio Power Amplifier Applications

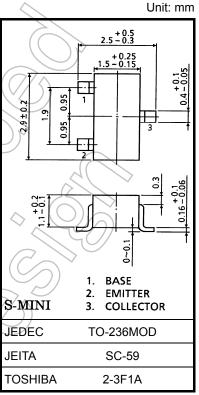
High hFE: hFE = 100 to 320Complementary to 2SC4210

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	IC	-800	mA
Base current	ΙΒ	-160	(mA)
Collector power dissipation	PC	200	mW
Junction temperature	Tj	150	ပွဲ
Storage temperature range	T _{stg}	-55 to 150	ပ

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).



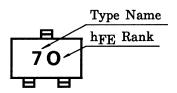
Weight: 0.012 g (typ.)

Electrical Characteristics (Ta = 25°C)

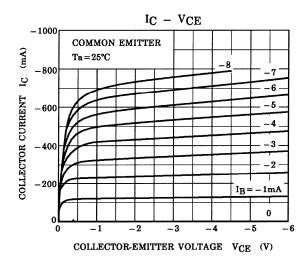
Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Collector cut-off current	I _{CBO}	$V_{CB} = -35 \text{ V}, I_{E} = 0$	_	_	-0.1	μΑ
Emitter cut-off current	I _{EBO}	$V_{EB} = -5 \text{ V}, I_{C} = 0$	_	_	-0.1	μА
Collector-emitter breakdown voltage	V (BR) CEO	$I_C = -10 \text{ mA}, I_B = 0$	-30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

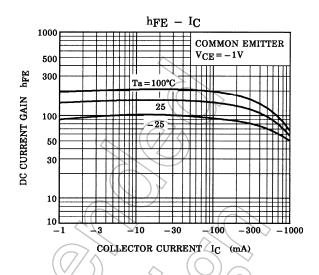
Note: $h_{FE\ (1)}$ classification O: 100 to 200, Y: 160 to 320

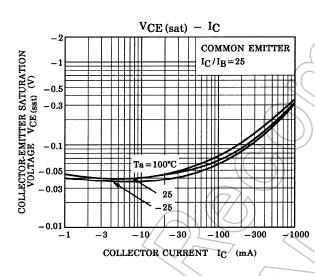
Marking

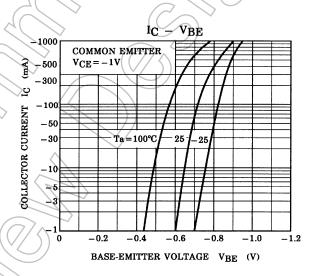


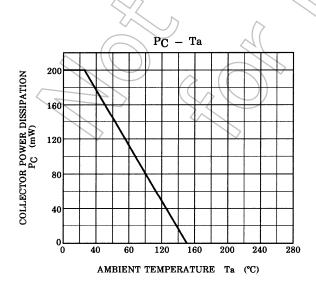
Start of commercial production 1987-05











2014-03-01

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