Unit: mm

TOSHIBA Transistor Silicon PNP Epitaxial Type (PCT process)

2SA1621

Audio Power Amplifier Applications

High hFE: hFE = 100~320 • 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	٧	
Collector current	IC	-800	mA	
Base current	ΙΒ	-160	mA	
Collector power dissipation	PC	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.)

1. BASE
2. EMITTER
3. COLLECTOR

JEDEC TO-236MOD

JEITA SC-59

TOSHIBA 2-3F1A

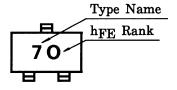
Weight: 0.012 g (typ.)

Electrical Characteristics (Ta = 25°C)

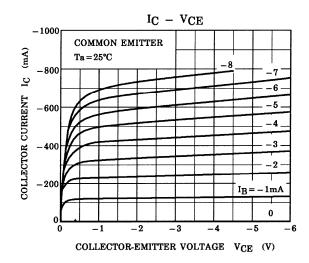
Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Collector cut-off current	I _{CBO}	$V_{CB} = -35 \text{ V}, I_E = 0$	_	_	-0.1	μΑ
Emitter cut-off current	I _{EBO}	$V_{EB} = -5 \text{ V, } I_{C} = 0$	_	_	-0.1	μА
Collector-emitter breakdown voltage	V (BR) CEO	$I_C = -10 \text{ mA}, I_B = 0$	-30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

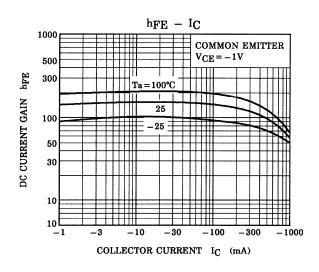
Note: hFE (1) classification O: 100~200, Y: 160~320

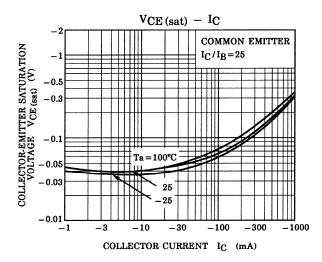
Marking

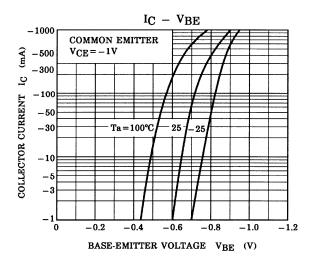


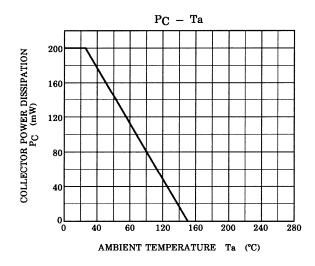
2007-11-01











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