Unit: mm

1.2 ± 0.05

BASE EMITTER

COLLECTOR

2-1B1A

T/E/S/M

JÉØEC

JEITA

TOSHIBA

TOSHIBA Transistor Silicon PNP Epitaxial Type (PCT process)

2SA1832FT

Audio frequency General Purpose Amplifier Applications

• High voltage: $V_{CEO} = -50 \text{ V}$

• High current: IC = -150 mA (max)

• High hFE: hFE = 120 to 400

• Excellent hFE linearity

 $: h_{FE} (I_{C} = -0.1 \text{ mA})/h_{FE} (I_{C} = -2 \text{ mA}) = 0.95 \text{ (typ.)}$

• Complementary to 2SC4738F

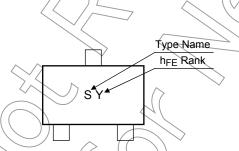
Absolute Maximum Ratings (Ta = 25°C)

Characteristics	Symbol	Rating	Unit
Collector-base voltage	V_{CBO}	-50	$\langle A \rangle$
Collector-emitter voltage	V_{CEO}	-50	(/x/ \)
Emitter-base voltage	V _{EBO}	-5	4
Collector current	IC	-150	mΑ
Base current	lΒ	-30	mW
Collector power dissipation	PC	100	~ mW
Junction temperature	Tj	125	°C
Storage temperature range	T _{stg}	-55 to 125	°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).

Marking



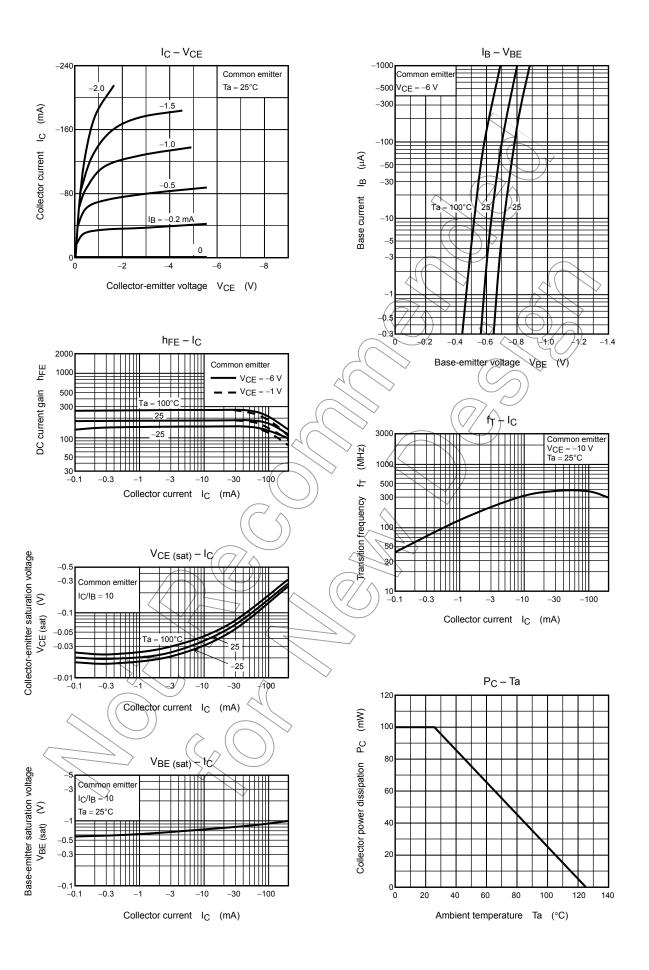
Electrical Characteristics (Ta = 25°C)

Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Collector cut-off current	I _{CBO}	$V_{CB} = -50 \text{ V}, I_E = 0$	_	_	-0.1	μΑ
Emitter cut-off current	I _{EBO}	$V_{EB} = -5 \text{ V}, I_C = 0$	_	_	-0.1	μΑ
DC current gain	h _{FE} (Note)	$V_{CE} = -6 \text{ V}, I_B = -2 \text{ mA}$	120	_	400	
Collector-emitter saturation voltage	V _{CE} (sat)	$I_C = -100 \text{ mA}, I_B = -10 \text{ mA}$	_	-0.1	-0.3	V
Transition frequency	f _T	$V_{CE} = -10 \text{ V}, I_{C} = -1 \text{ mA}$	80	_	_	MHz
Collector output capacitance	C _{ob}	$V_{CB} = -10 \text{ V}, I_E = 0, f = 1 \text{ MHz}$	_	4	7	pF

Note: hFE Classification

Y (Y): 120 to 140, GR (G): 200 to 400

() Marking symbol



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