Unit in mm

TOSHIBA TRANSISTOR SILICON PNP EPITAXIAL TYPE (PCT PROCESS)

2 S A 1 4 2 6

AUDIO POWER AMPLIFIER APPLICATIONS

• High h_{FE} : $h_{FE} = 100 \sim 320$

• 1 W Output Applications.

• Complementary to 2SC3666.

MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	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	$I_{\mathbf{C}}$	-800	mA
Base Current	$I_{\mathbf{B}}$	-160	mA
Collector Power Dissipation	$P_{\mathbf{C}}$	1000	mW
Junction Temperature	T_{j}	150	°C
Storage Temperature Range	$\mathrm{T}_{\mathrm{stg}}$	-55~150	°C

7.1MAX

3.8

3.8

3.2

0.55 - 0.05

0.65

0.45 - 0.05

1. BASE
2. COLLECTOR
3. EMITTER

JEDEC

JEITA

TOSHIBA

2.7MAX

1.02.7MAX

1.

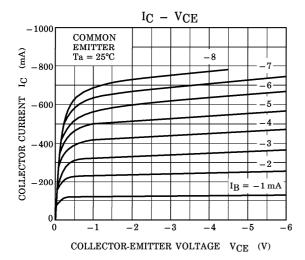
Weight: 0.2 g (Typ.)

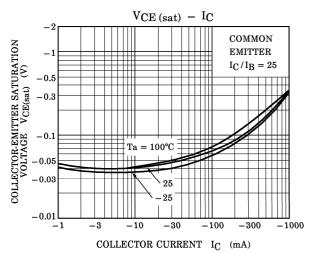
ELECTRICAL CHARACTERISTICS (Ta = 25°C)

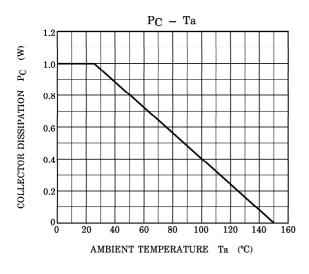
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	$V_{CB} = -35 \text{ V}, I_{E} = 0$	_	_	-100	nA
Emitter Cut-off Current	I_{EBO}	$V_{EB} = -5 V, I_{C} = 0$	_	_	-100	nA
Collector-Emitter Breakdown Voltage	V (BR) CEO	$I_{ m C} = -10{ m mA}$	-30	_	_	V
DC Current Gain	h _{FE (1)} (Note)	$V_{ m CE} = -1 m V, I_{ m C} = -100 m mA$	100	_	320	
	hFE (2)	$V_{CE} = -1 \text{ V}, I_{C} = -700 \text{ mA}$	35	_	_	
Collector-Emitter Saturation Voltage	V _{CE} (sat)	$I_{\rm C} = -500 { m mA}, I_{ m B} = 20 { m mA}$	_	_	-0.7	V
Base-Emitter Voltage	$ m V_{BE}$	$V_{CE} = -1 \text{ V}, I_{C} = -10 \text{ mA}$	-0.5	_	-0.8	V
Transition Frequency	$ m f_{T}$	$V_{CE} = -5 \text{ V}, I_{C} = -10 \text{ mA}$	_	120	_	MHz
Collector Output Capacitance	C_{ob}	$V_{CB} = -10 \mathrm{V, f} = 1 \mathrm{MHz}$	_	19	_	pF

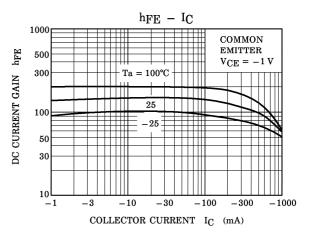
(Note): $h_{FE(1)}$ Classification $O: 100\sim200, Y: 160\sim320$

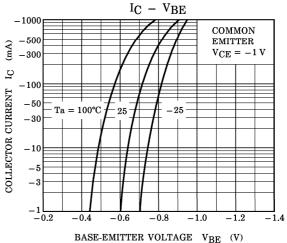
1 2001-10-29

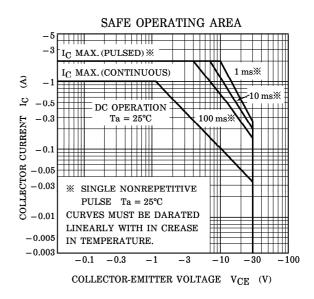












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