Unit in mm

TOSHIBA TRANSISTOR SILICON PNP EPITAXIAL TYPE (PCT PROCESS)

2 S A 1 2 0 2

POWER AMPLIFIER APPLICATIONS
VOLTAGE AMPLIFIER APPLICATIONS

- Suitable for driver of 30~35 Watts Audio Amplifier
- P_C=1~2W (Mounted on Ceramic Substrate)
- Small Flat Package
- Complementary to 2SC2882

MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	v_{CBO}	-80	V
Collector-Emitter Voltage	v_{CEO}	-80	V
Emitter-Base Voltage	$V_{ m EBO}$	-5	V
Collector Current	$I_{\mathbf{C}}$	-400	mA
Base Current	$I_{\mathbf{B}}$	-80	mA
Collector Power Dissipation	$P_{\mathbf{C}}$	500	mW
Collector Power Dissipation	P _C (Note 1)	1000	mW
Junction Temperature	T_{j}	150	°C
Storage Temperature Range	$\mathrm{T_{stg}}$	-55~150	°C

1. BASE
2. COLLECTOR
(HEAT SINK)
3. EMITTER

JEDEC

JEITA

SC-62

TOSHIBA

2.1.6MAX

0.4±0.05

0.4±0.05

1.5±0.1

1.5±0.1

1.6MAX

0.4±0.05

1.5±0.1

1.6MAX

0.4±0.05

1.5±0.1

1.5±0.1

1.5±0.1

1.5±0.1

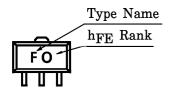
1.5±0.1

1.5±0.1

Weight: 0.05g (Typ.)

(Note 1): Mounted on ceramic substrate (250mm²×0.8t)

MARKING



ELECTRICAL CHARACTERISTICS (Ta = 25°C)

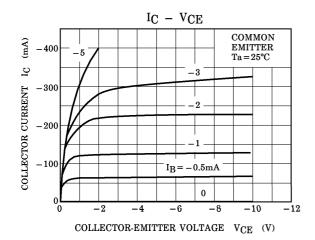
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	$V_{CB} = -80V, I_{E} = 0$	_	_	-0.1	μ A
Emitter Cut-off Current	$I_{ m EBO}$	$V_{EB} = -5V, I_{C} = 0$	_		-0.1	μ A
Collector-Emitter Breakdown Voltage	V (BR) CEO	$I_C = -10 \text{mA}, I_B = 0$	-80		_	V
DC Current Gain	hFE (1) (Note 2)	$V_{CE} = -2V, I_{C} = -50 \text{mA}$	70	_	240	
	h _{FE (2)}	$V_{CE} = -2V, I_{C} = -200 \text{mA}$	40		_	
Collector-Emitter Saturation Voltage	V _{CE} (sat)	$I_C = -200 \text{mA}, I_B = -20 \text{mA}$		1	-0.4	V
Base-Emitter Voltage	$ m V_{BE}$	$V_{CE} = -2V$, $I_{C} = -5mA$	-0.55	1	-0.8	V
Transition Frequency	${ m f_T}$	$V_{CE} = -10V, I_{C} = -10mA$	_	120	_	MHz
Collector Output Capacitance	$C_{f ob}$	$V_{CB} = -10V, I_{E} = 0, f = 1MHz$	_	14	_	pF

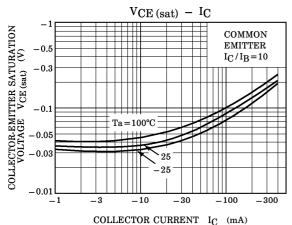
(Note 2): hFE Classification

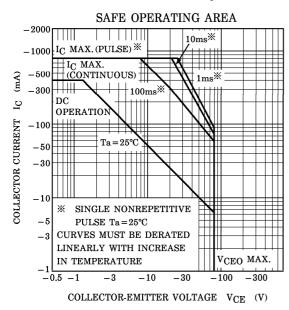
 $O: 70\sim140, Y: 120\sim240$

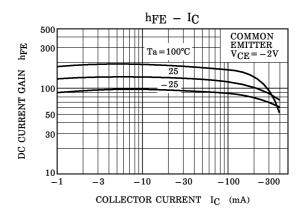
1

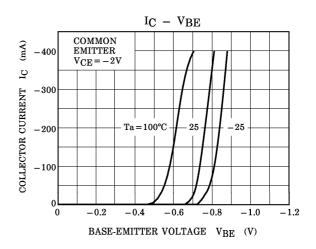
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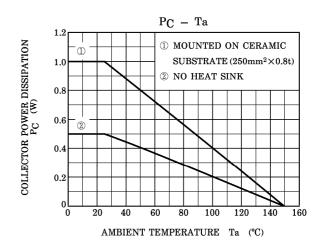












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