TOSHIBA Transistor Silicon NPN Epitaxial Type (PCT process)

# 2SC2884

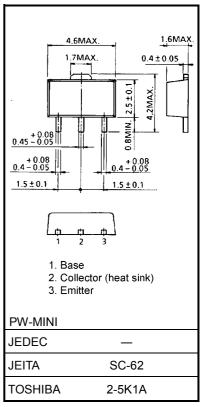
### Audio Frequency Amplifier Applications

- High DC current gain: hFE = 100 to 320
- Suitable for output stage of 1 watts amplifier
- Small flat package
- $P_C = 1.0$  to 2.0 W (mounted on ceramic substrate)
- Complementary to 2SA1204

### Maximum Ratings (Ta = 25°C)

Characteristics	Symbol	Rating	Unit	
Collector-base voltage	V <sub>CBO</sub>	35	V	
Collector-emitter voltage	V <sub>CEO</sub>	30	V	
Emitter-base voltage	V <sub>EBO</sub>	5	V	
Collector current	Ι <sub>C</sub>	800	mA	
Base current	Ι <sub>Β</sub>	160	mA	
Collector power dissipation	P <sub>C</sub>	500	mW	
	P <sub>C</sub>	1000		
	(Note 1)	1000		
Junction temperature	Tj	150	°C	
Storage temperature range	T <sub>stg</sub>	−55 to 150	°C	

Note 1: Mounted on ceramic substrate (250 mm<sup>2</sup> × 0.8 t)



Weight: 0.05 g (typ.)

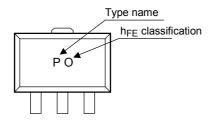
Unit: mm

**Electrical Characteristics (Ta = 25°C)** 

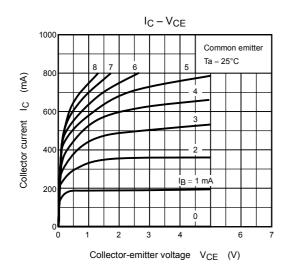
Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Collector cut-off current	I <sub>CBO</sub>	V <sub>CB</sub> = 35 V, I <sub>E</sub> = 0	_	_	0.1	μA
Emitter cut-off current	I <sub>EBO</sub>	V <sub>EB</sub> = 5 V, I <sub>C</sub> = 0		_	0.1	μA
Collector-emitter breakdown voltage	V (BR) CEO	I <sub>C</sub> = 10 mA, I <sub>B</sub> = 0	30		_	V
DC current gain	h <sub>FE (1)</sub> (Note 2)	I <sub>E</sub> = 1 V, I <sub>C</sub> = 100 mA	100	_	320	_
	h <sub>FE (2)</sub>	V <sub>CE</sub> = 1 V, I <sub>C</sub> = 700 mA	35	_	_	
Collector-emitter saturation voltage	V <sub>CE (sat)</sub>	I <sub>C</sub> = 500 mA, I <sub>B</sub> = 20 mA		_	0.5	V
Base-emitter voltage	V <sub>BE</sub>	V <sub>CE</sub> = 1 V, I <sub>C</sub> = 10 mA	0.5	_	0.8	V
Transition frequency	fT	V <sub>CE</sub> = 5 V, I <sub>C</sub> = 10 mA	_	120	_	MHz
Collector output capacitance	C <sub>ob</sub>	V <sub>CB</sub> = 10 V, I <sub>E</sub> = 0, f = 1 MHz		13	—	pF

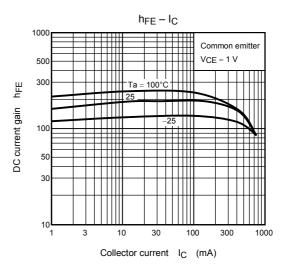
Note 2:  $h_{FE(1)}$  classification O: 100 to 200, Y: 160 to 320

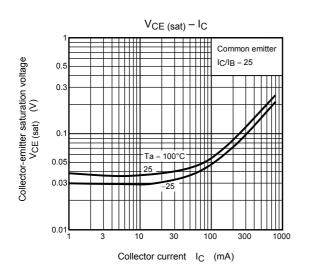
# Marking

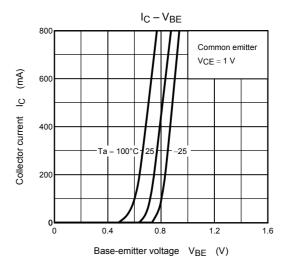


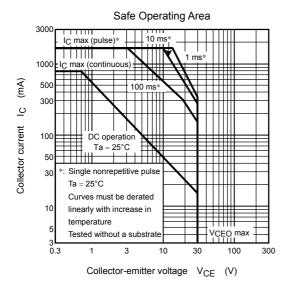
# TOSHIBA

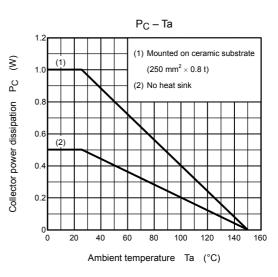












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