Unit: mm

TOSHIBA Transistor Silicon NPN Epitaxial Type (PCT process)

# 2SC2883

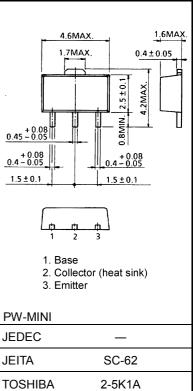
#### Audio Frequency Amplifier Applications

- Suitable for output stage of 3 watts amplifier
- Small flat package
- PC = 1.0 to 2.0 W (mounted on ceramic substrate)
- Complementary to 2SA1203

### Maximum Ratings (Ta = 25°C)

Characteristics	Symbol	Rating	Unit	
Collector-base voltage	$V_{CBO}$	30	V	
Collector-emitter voltage	V <sub>CEO</sub>	30	V	
Emitter-base voltage	V <sub>EBO</sub>	5	V	
Collector current	Ic	1.5	Α	
Base current	Ι <sub>Β</sub>	0.3	Α	
Collector power dissipation	PC	500	mW	
	PC	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)



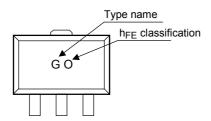
Weight: 0.05 g (typ.)

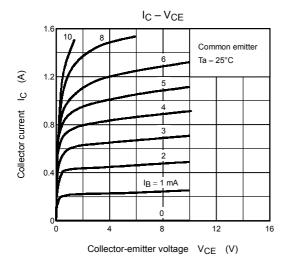
## Electrical Characteristics (Ta = 25°C)

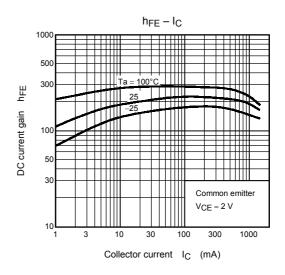
Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Collector cut-off current	I <sub>CBO</sub>	V <sub>CB</sub> = 30 V, I <sub>E</sub> = 0	_	_	0.1	μΑ
Emitter cut-off current	I <sub>EBO</sub>	V <sub>EB</sub> = 5 V, I <sub>C</sub> = 0	_	_	0.1	μΑ
Collector-emitter breakdown voltage	V (BR) CEO	I <sub>C</sub> = 10 mA, I <sub>B</sub> = 0	30	_	_	V
Emitter-base breakdown voltage	V (BR) EBO	I <sub>E</sub> = 1 mA, I <sub>C</sub> = 0	5	_	_	V
DC current gain	h <sub>FE</sub> (Note 2)	V <sub>CE</sub> = 2 V, I <sub>C</sub> = 500 mA	100	_	320	_
Collector-emitter saturation voltage	V <sub>CE (sat)</sub>	I <sub>C</sub> = 1.5 A, I <sub>B</sub> = 0.03 A	_	_	2.0	V
Base-emitter voltage	V <sub>BE</sub>	V <sub>CE</sub> = 2 V, I <sub>C</sub> = 500 mA	_	_	1.0	V
Transition frequency	f <sub>T</sub>	V <sub>CE</sub> = 2 V, I <sub>C</sub> = 500 mA	_	120	_	MHz
Collector output capacitance	C <sub>ob</sub>	V <sub>CB</sub> = 10 V, I <sub>E</sub> = 0, f = 1 MHz	_	_	40	pF

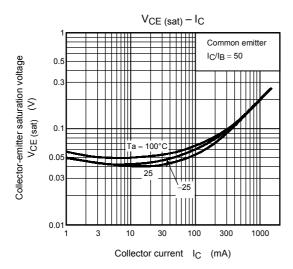
Note 2:  $h_{\mbox{\scriptsize FE}}$  classification O: 100 to 200, Y: 160 to 320

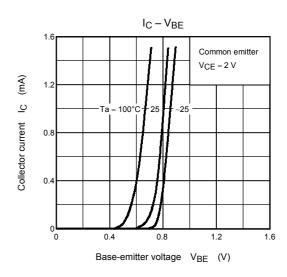
### Marking

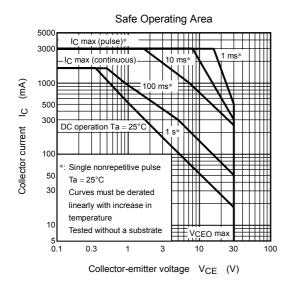


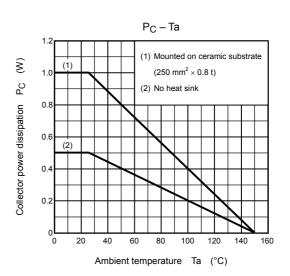












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