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 _{CEO}	30	V	
Emitter-base voltage	V _{EBO}	5	V	
Collector current	Ic	1.5	Α	
Base current	ΙΒ	0.3	Α	
Collector power dissipation	PC	500	mW	
	PC	1000		
	(Note 1)			
Junction temperature	Tj	150	°C	
Storage temperature range	T _{stg}	−55 to 150	°C	

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

1.6MAX. 1.7MAX. 0.4±0.05 0.45-0.05 0.4-0.05 1.5±0.1 1.5±0.1 1.5±0.1 1.5±0.1

SC-62

2-5K1A

Weight: 0.05 g (typ.)

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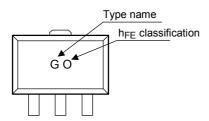
TOSHIBA

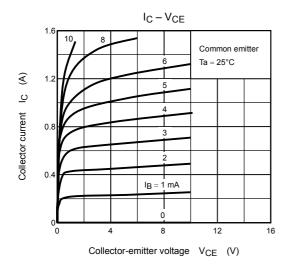
Electrical Characteristics (Ta = 25°C)

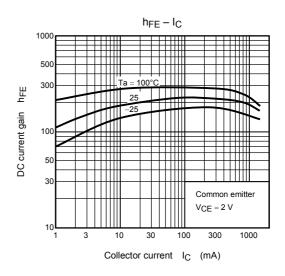
Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Collector cut-off current	I _{CBO}	V _{CB} = 30 V, I _E = 0	_	_	0.1	μΑ
Emitter cut-off current	I _{EBO}	V _{EB} = 5 V, I _C = 0	_	_	0.1	μΑ
Collector-emitter breakdown voltage	V (BR) CEO	I _C = 10 mA, I _B = 0	30	_	_	V
Emitter-base breakdown voltage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

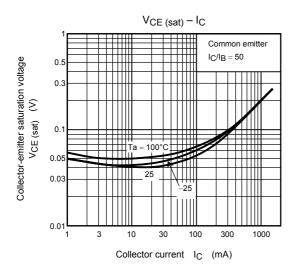
Note 2: $h_{\mbox{\scriptsize FE}}$ classification O: 100 to 200, Y: 160 to 320

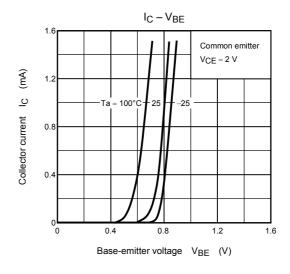
Marking

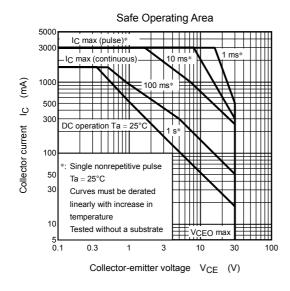


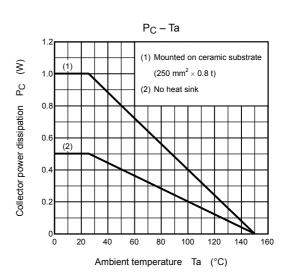












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