TOSHIBA Transistor Silicon NPN Epitaxial Type (PCT process)

2SC2884

Audio Frequency Amplifier Applications

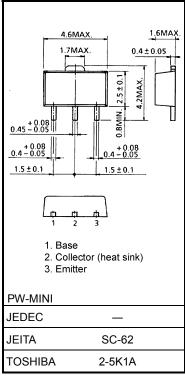
- High DC current gain: hFE = 100 to 320
- Suitable for output stage of 1 watts amplifier
- Small flat package
- PC = 1.0 to 2.0 W (mounted on a ceramic substrate)
- Complementary to 2SA1204

Maximum Ratings (Ta = 25°C)

Characteristics	Symbol	Rating	Unit	
Collector-base voltage	V_{CBO}	35	٧	
Collector-emitter voltage	V_{CEO}	30	٧	
Emitter-base voltage	V_{EBO}	5	V	
Collector current	IC	800	mA	
Base current	Ι _Β	160	mA	
Collector power dissipation	PC	500	mW	
	P _C	1000		
	(Note 1)	1000		
Junction temperature	Tj	150	°C	
Storage temperature range	T _{stg}	-55 to 150	°C	

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

Unit: mm



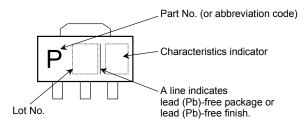
Weight: 0.05 g (typ.)

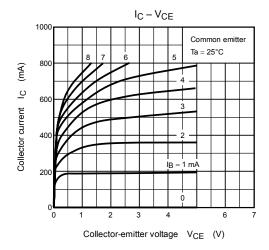
Electrical Characteristics (Ta = 25°C)

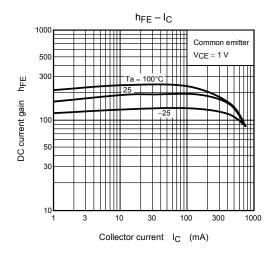
Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Collector cut-off current	I _{CBO}	V _{CB} = 35 V, I _E = 0	_	_	0.1	μΑ
Emitter cut-off current	I _{EBO}	V _{EB} = 5 V, I _C = 0	_	_	0.1	μA
Collector-emitter breakdown voltage	V (BR) CEO	I _C = 10 mA, I _B = 0	30	_	_	V
DC current gain	h _{FE (1)}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

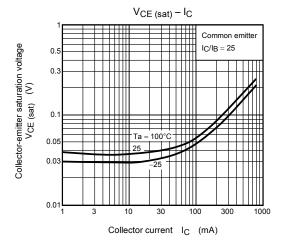
Note 2: $h_{FE\ (1)}$ classification O: 100 to 200, Y: 160 to 320

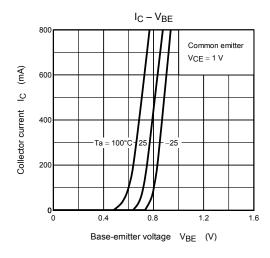
Marking

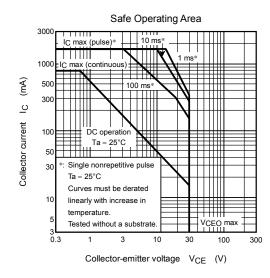


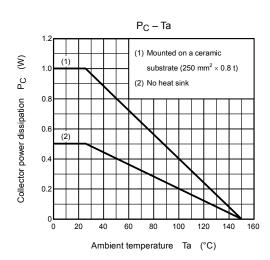












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