TOSHIBA Transistor Silicon PNP Epitaxial Type (PCT process)

2SA1204

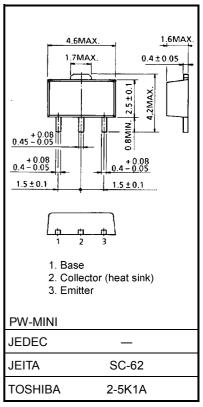
Audio Frequency Amplifier Applications

- 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 2SC2884

Maximum Ratings (Ta = 25°C)

Characteristics	Symbol	Rating	Unit	
Collector-base voltage	V _{CBO}	-35	V	
Collector-emitter voltage	V _{CEO}	-30	V	
Emitter-base voltage	V _{EBO}	-5	V	
Collector current	Ι _C	-800	mA	
Base current	Ι _Β	-160	mA	
Collector power dissipation	P _C	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 ceramic substrate (250 mm² × 0.8 t)



Weight: 0.05 g (typ.)

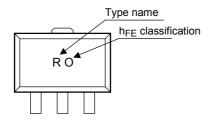
Unit: mm

Electrical Characteristics (Ta = 25°C)

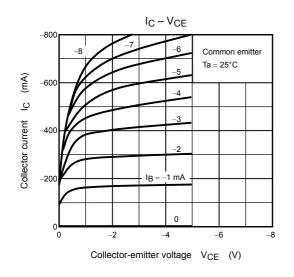
Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Collector cut-off current	I _{CBO}	$V_{CB} = -35 V, I_E = 0$	—	_	-0.1	μA
Emitter cut-off current	I _{EBO}	$V_{EB} = -5 V, I_C = 0$	_	_	-0.1	μA
Collector-emitter breakdown voltage	V (BR) CEO	I _C = -10 mA, I _B = 0	-30	_	-	V
DC current gain	h _{FE (1)} (Note 2)	V _{CE} = -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	_	_	-0.7	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	_	19	_	pF

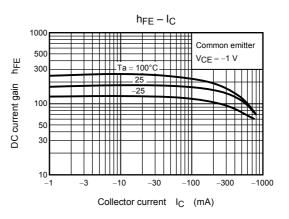
Note 2: $h_{FE(1)}$ classification O: 100 to 200, Y: 160 to 320

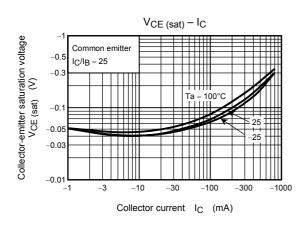
Marking

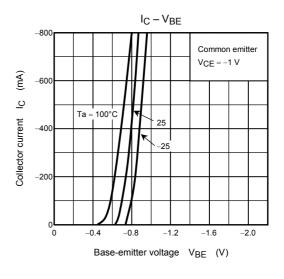


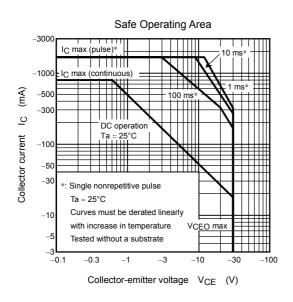
TOSHIBA

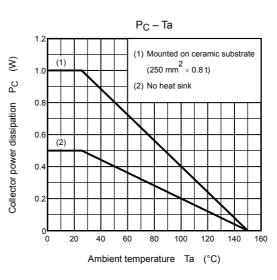












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