TOSHIBA Transistor Silicon PNP Triple Diffused Type

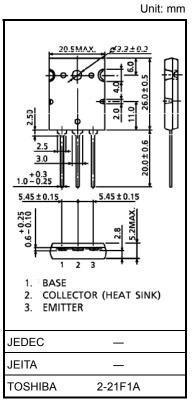
2SA2121

Power Amplifier Applications

- \bullet PC = 220W
- Complementary to 2SC5949

Maximum Ratings (Tc = 25°C)

Characteristic	Symbol	Rating	Unit
Collector-base voltage	V_{CBO}	-200	V
Collector-emitter voltage	V _{CEO}	-200	V
Emitter-base voltage	V _{EBO}	-5	٧
Collector current	Ic	-15	Α
Base current	Ι _Β	− 1.5	Α
Collector power dissipation	P _C	220	W
Junction temperature	Tj	150	°C
Storage temperature range	T _{stg}	-55 to 150	°C



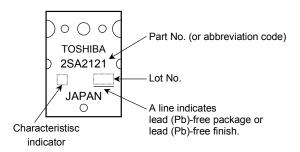
Weight: 9.75 g (typ.)

Electrical Characteristics (Tc = 25°C)

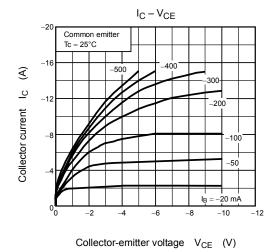
Characteristic	Symbol	Test Conditions	Min	Тур.	Max	Unit
Collector cut-off current	I _{CBO}	V _{CB} = -200 V, I _E = 0	_	_	-5.0	μΑ
Emitter cut-off current	I _{EBO}	$V_{EB} = -5 \text{ V}, I_{C} = 0$	_	_	-5.0	μA
Collector-emitter breakdown voltage	V (BR) CEO	$I_C = -50 \text{ mA}, I_B = 0$	-200	_	_	٧
DC current gain	h _{FE (1)} (Note 1)	V _{CE} = -5 V, I _C = -1 A	55	_	160	
	h _{FE (2)}	V _{CE} = -5 V, I _C = -8 A	35	60	_	
Collector-emitter saturation voltage	V _{CE (sat)}	I _C = -10 A, I _B = -1 A	_	-1.5	-3.0	V
Base-emitter voltage	V_{BE}	V _{CE} = -5 V, I _C = -8 A	_	-1.0	-1.5	V
Transition frequency	f _T	V _{CE} = -5 V, I _C = -1 A	_	25	_	MHz
Collector output capacitance	C _{ob}	V _{CB} = −10 V, I _E = 0, f = 1 MHz	_	470	_	pF

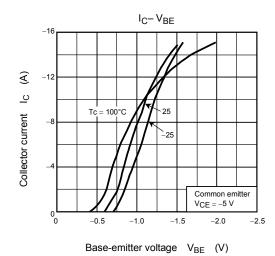
Note 1: $h_{FE(1)}$ classification R: 55 to 110, O: 80 to 160

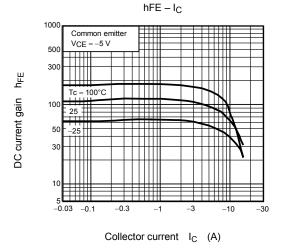
Marking

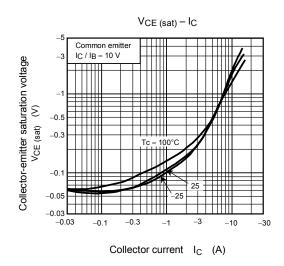


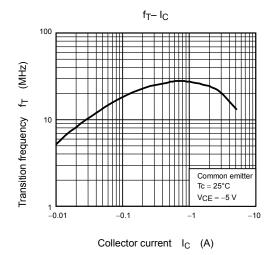
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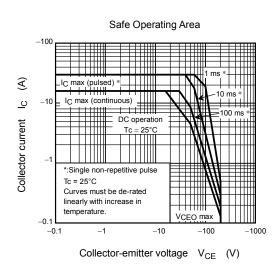












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