TOSHIBA Transistor Silicon NPN Triple Diffused Type

2SC5197

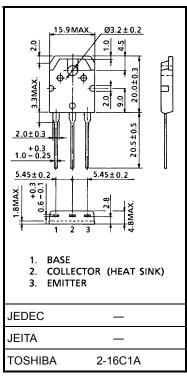
Power Amplifier Applications

Unit: mm

- Complementary to 2SA1940
- Suitable for use in 55-W high fidelity audio amplifier's output stage

Maximum Ratings (Tc = 25°C)

Characteristics	Symbol	Rating	Unit
Collector-base voltage	V_{CBO}	120	V
Collector-emitter voltage	V_{CEO}	120	٧
Emitter-base voltage	V _{EBO}	5	V
Collector current	Ic	8	Α
Base current	ΙΒ	0.8	Α
Collector power dissipation (Tc = 25°C)	P _C	80	W
Junction temperature	Tj	150	°C
Storage temperature range	T _{stg}	-55 to 150	°C



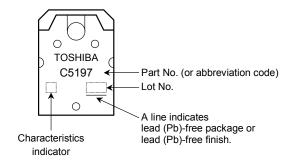
Weight: 4.7 g (typ.)

Electrical Characteristics (Tc = 25°C)

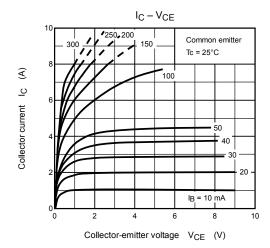
Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Collector cut-off current	I _{CBO}	V _{CB} = 120 V, I _E = 0	_	_	5.0	μΑ
Emitter cut-off current	I _{EBO}	V _{EB} = 5 V, I _C = 0	_	_	5.0	μΑ
Collector-emitter breakdown voltage	V (BR) CEO	I _C = 50 mA, I _B = 0	120	_	_	V
DC current gain	h _{FE (1)} (Note)	V _{CE} = 5 V, I _C = 1 A	55	_	160	
	h _{FE (2)}	V _{CE} = 5 V, I _C = 4 A	35	75	_	
Collector-emitter saturation voltage	V _{CE (sat)}	I _C = 6 A, I _B = 0.6 A	_	0.35	2.0	V
Base-emitter voltage	V_{BE}	V _{CE} = 5 V, I _C = 4 A	_	0.95	1.5	V
Transition frequency	f _T	V _{CE} = 5 V, I _C = 1 A	_	30	_	MHz
Collector output capacitance	C _{ob}	V _{CB} = 10 V, I _E = 0, f = 1 MHz	_	120	_	pF

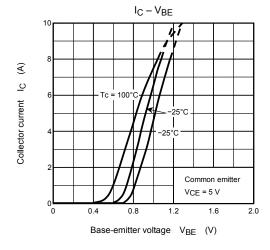
Note: h_{FE (1)} classification R: 55 to 110, O: 80 to 160

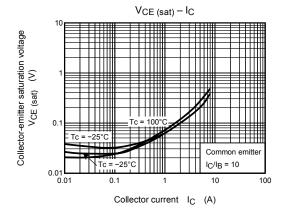
Marking

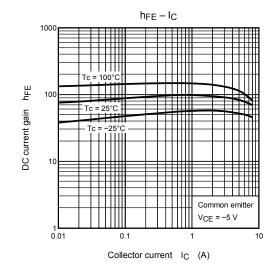


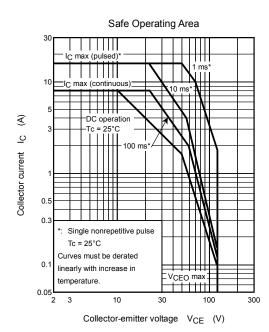
2 2004-07-07











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Handbook" etc..

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