TOSHIBA Transistor Silicon NPN Epitaxial Type (PCT Process)

2SC2705

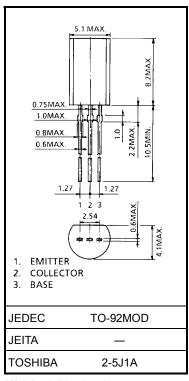
Audio Frequency Amplifier Applications

Unit: mm

- Small collector output capacitance: Cob = 1.8 pF (typ.)
- High transition frequency: fT = 200 MHz (typ.)
- Complementary to 2SA1145.

Maximum Ratings (Ta = 25°C)

Characteristics	Symbol	Rating	Unit
Collector-base voltage	V_{CBO}	150	V
Collector-emitter voltage	V _{CEO}	150	V
Emitter-base voltage	V _{EBO}	5	V
Collector current	I _C	50	mA
Base current	Ι _Β	5	mA
Collector power dissipation	P _C	800	mW
Junction temperature	Tj	150	°C
Storage temperature range	T _{stg}	-55 to 150	°C



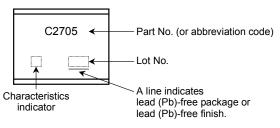
Weight: 0.36 g (typ.)

Electrical Characteristics (Ta = 25°C)

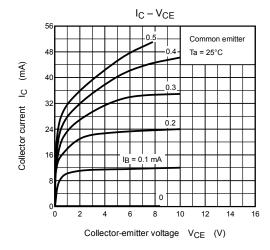
Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Collector cut-off current	I _{CBO}	V _{CB} = 150 V, I _E = 0	_	_	0.1	μA
Emitter cut-off current	I _{EBO}	V _{EB} = 5 V, I _C = 0	_	_	0.1	μA
Collector-emitter breakdown voltage	V _{(BR) CEO}	I _C = 1 mA, I _B = 0	150	_	_	V
DC current gain	h _{FE} (Note)	V _{CE} = 5 V, I _C = 10 mA	80	_	240	
Collector-emitter saturation voltage	V _{CE (sat)}	I _C = 10 mA, I _B = 1 mA	_	_	1.0	V
Base-emitter voltage	V _{BE (sat)}	V _{CE} = 5 V, I _C = 10 mA	_	_	0.8	V
Transition frequency	f _T	V _{CE} = 5 V, I _C = 10 mA	_	200	_	MHz
Collector output capacitance	C _{ob}	V _{CB} = 10 V, I _E = 0, f = 1 MHz	_	1.8	_	pF

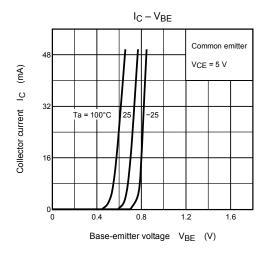
Note: $h_{\mbox{\scriptsize FE}}$ classification O: 80 to 160, Y: 120 to 240

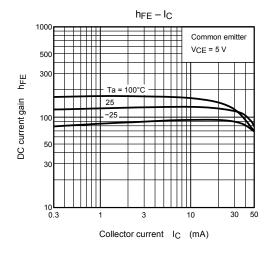
Marking

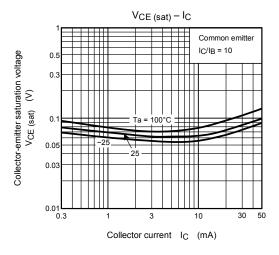


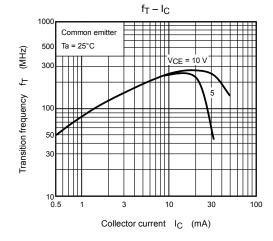
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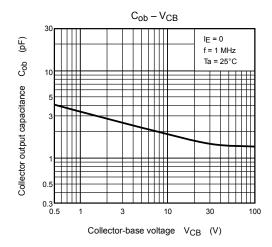




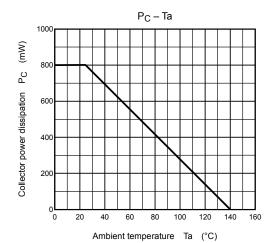








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Handbook" etc..

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