TOSHIBA Transistor Silicon NPN Epitaxial Type (PCT Process)

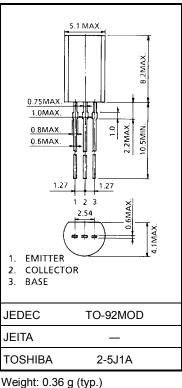
2SC2235

Audio Power Amplifier Applications Driver Stage Amplifier Applications

• Complementary to 2SA965.

Maximum Ratings (Ta = 25°C)

Characteristics	Symbol	Rating	Unit
Collector-base voltage	V _{CBO}	120	V
Collector-emitter voltage	V _{CEO}	120	V
Emitter-base voltage	V _{EBO}	5	V
Collector current	Ι _C	800	mA
Base current	Ι _Β	80	mA
Collector power dissipation	P _C	900	mW
Junction temperature	Тј	150	°C
Storage temperature range	T _{stg}	-55 to 150	°C



Electrical Characteristics (Ta = 25°C)

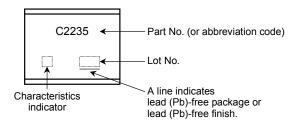
Characteristics Symbol **Test Condition** Min Unit Тур. Max Collector cut-off current 100 V_{CB} = 120 V, I_E = 0 _ nA **I**CBO $V_{EB} = 5 V, I_C = 0$ Emitter cut-off current 100 nA I_{EBO} _ _ $I_{C} = 10 \text{ mA}, I_{B} = 0$ Collector-emitter breakdown voltage V (BR) CEO 120 _ _ V $I_{E} = 1 \text{ mA}, I_{C} = 0$ 5 V Emitter-base breakdown voltage V (BR) EBO _ _ h_{FE} DC current gain V_{CE} = 5 V, I_C = 100 mA 240 80 _ (Note) Collector-emitter saturation voltage V_{CE (sat)} $I_{C} = 500 \text{ mA}, I_{B} = 50 \text{ mA}$ 1.0 ٧ _ _ Base-emitter voltage V_{BE} V_{CE} = 5 V, I_{C} = 500 mA 1.0 V _ _ Transition frequency f_{T} V_{CE} = 5 V, I_C = 100 mA _ 120 _ MHz V_{CB} = 10 V, I_E = 0, f = 1 MHz Collector output capacitance Cob _ 30 pF

Note: hFE classification O: 80 to 160, Y: 120 to 240

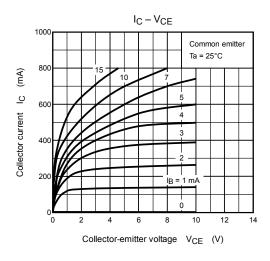


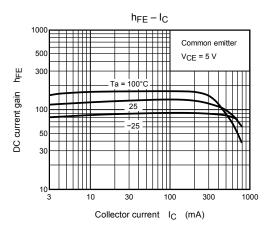
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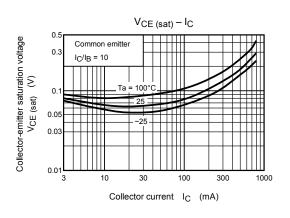
Marking

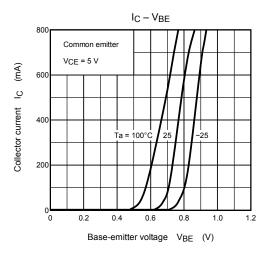


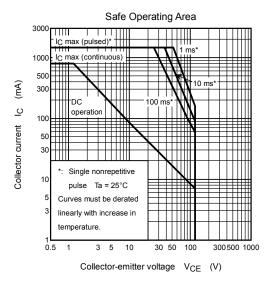
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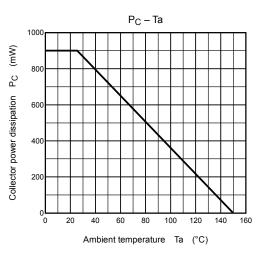












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