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查询2SC2235_06供应商 TOSHIBA

2SC2235

Unit: mm

TOSHIBA Transistor Silicon NPN Epitaxial Type (PCT Process)



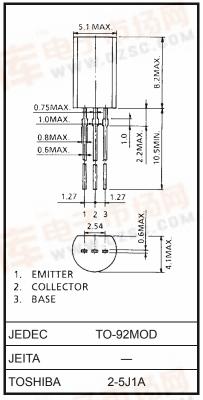
Audio Power Amplifier Applications Driver Stage Amplifier Applications

• Complementary to 2SA965.

Absolute 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	Pc	900	mW			
Junction temperature	Тј	150	°C			
Storage temperature range	T _{stg}	-55 to 150	°C			

Note: Using continuously under heavy loads (e.g. the application of high temperature/current/voltage and the significant change in temperature, etc.) may cause this product to decrease in the reliability significantly even if the operating conditions (i.e. operating temperature/current/voltage, etc.) are within the absolute maximum ratings.



Weight: 0.36 g (typ.)

Please design the appropriate reliability upon reviewing the Toshiba Semiconductor Reliability Handbook ("Handling Precautions"/Derating Concept and Methods) and individual reliability data (i.e. reliability test report and estimated failure rate, etc).

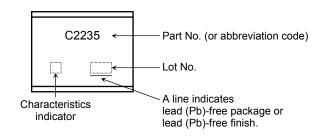
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Electrical Characteristics (Ta = 25°C)

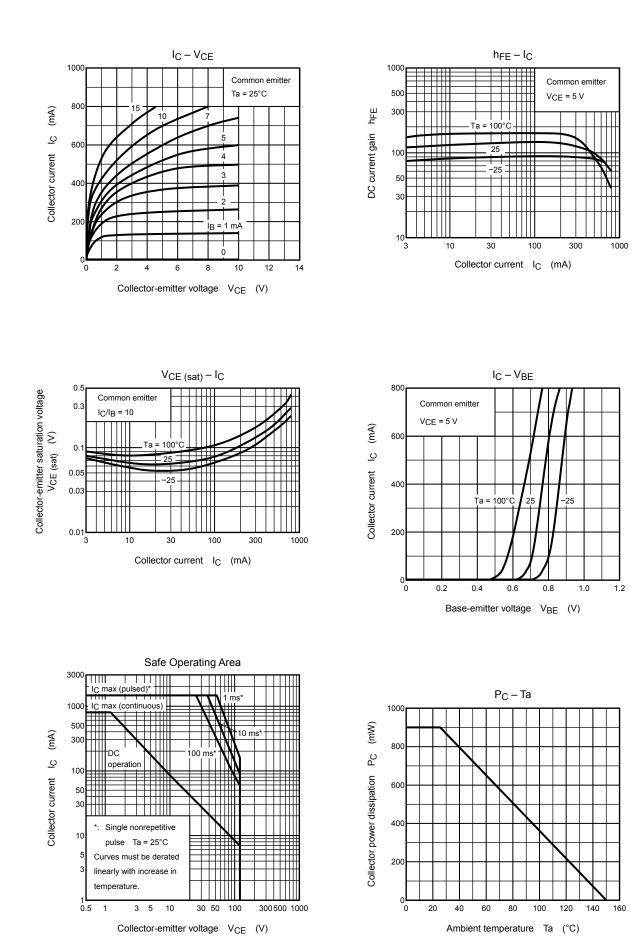
Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Collector cut-off current	I _{CBO}	V _{CB} = 120 V, I _E = 0	_	—	100	nA
Emitter cut-off current	I _{EBO}	V _{EB} = 5 V, I _C = 0	_	_	100	nA
Collector-emitter breakdown voltage	V (BR) CEO	I _C = 10 mA, I _B = 0	120	_	_	V
Emitter-base breakdown voltage	V _{(BR) EBO}	I _E = 1 mA, I _C = 0	5	_	_	V
DC current gain	h _{FE} (Note)	V _{CE} = 5 V, I _C = 100 mA	80	_	240	
Collector-emitter saturation voltage	V _{CE (sat)}	I _C = 500 mA, I _B = 50 mA		_	1.0	V
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
Collector output capacitance	C _{ob}	V _{CB} = 10 V, I _E = 0, f = 1 MHz	_	_	30	pF

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

Marking



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RESTRICTIONS ON PRODUCT USE

Handbook" etc.

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