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查询2SC2229_06供应商 TOSHIBA

2SC2229

TOSHIBA Transistor Silicon NPN Triple Diffused Type (PCT Process)

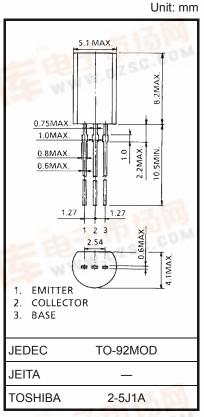


Black and White TV Video Output Applications High-Voltage Switching Applications Driver Stage Audio Amplifier Applications

- High breakdown voltage: V_{CEO} = 150 V (min)
- Low output capacitance: Cob = 5.0 pF (max)
- High transition frequency: $f_T = 120 \text{ MHz}$ (typ.)

Absolute Maximum Ratings (Ta = 25°C)

Characteristics	Symbol	Rating	Unit
Collector-base voltage	V _{CBO}	200	V
Collector-emitter voltage	V _{CEO}	150	V
Emitter-base voltage	V _{EBO}	5	V
Collector current	IC	50	mA
Base current	IB	20	mA
Collector power dissipation	P _C	800	mW
Junction temperature	Tj	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

Weight: 0.36 g (typ.)

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. 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).

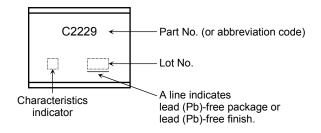


Electrical Characteristics (Ta = 25°C)

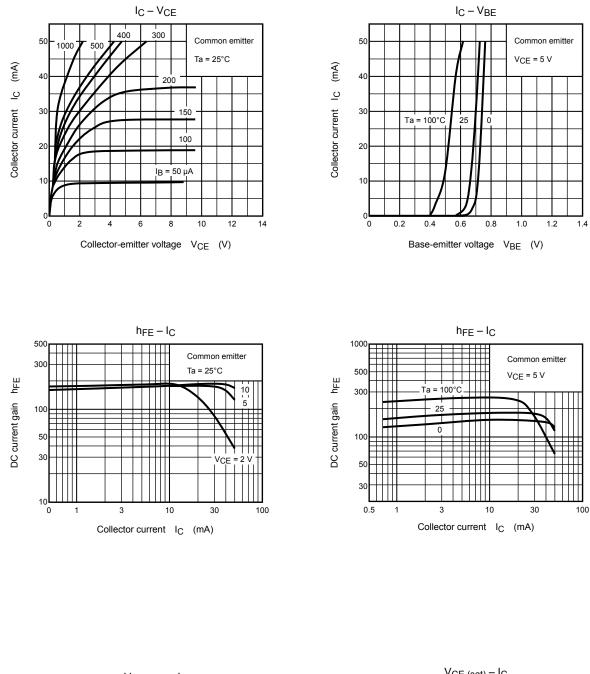
Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Collector cut-off current	I _{CBO}	V _{CB} = 200 V, I _E = 0	_	_	0.1	μΑ
Emitter cut-off current	I _{EBO}	V _{EB} = 5 V, I _C = 0	_	_	0.1	μA
DC current gain	h _{FE} (Note)	V _{CE} = 5 V, I _C = 10 mA	70	_	240	
Collector-emitter saturation voltage	V _{CE (sat)}	I _C = 10 mA, I _B = 1 mA	_	_	0.5	V
Base-emitter saturation voltage	V _{BE (sat)}	I _C = 10 mA, I _B = 1 mA	_	_	1	V
Transition frequency	fT	V _{CE} = 30 V, I _C = 10 mA	_	120	_	MHz
Collector output capacitance	C _{ob}	V _{CB} = 10 V, I _E = 0, f = 1 MHz	_	3.5	5	pF

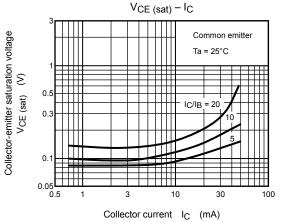
Note: hFE classification O: 70 to 140, Y: 120 to 240

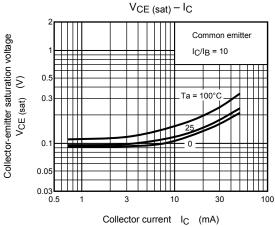
Marking



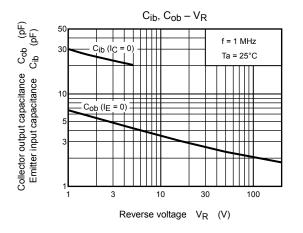
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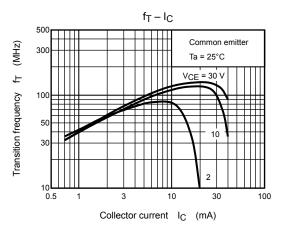


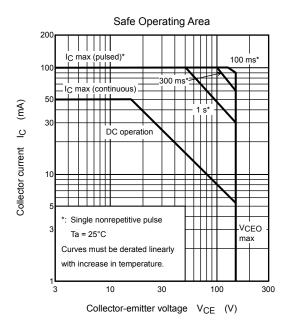


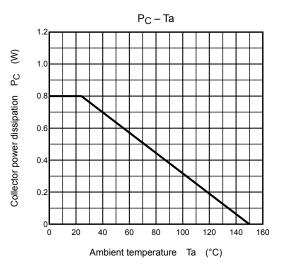


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RESTRICTIONS ON PRODUCT USE

Handbook" etc.

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