Unit: mm

TOSHIBA Transistor Silicon PNP Epitaxial Type (PCT Process)

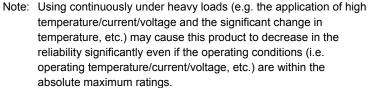
2SA966

Audio Power Amplifier Applications

• Complementary to 2SC2236 and 3-W output applications.

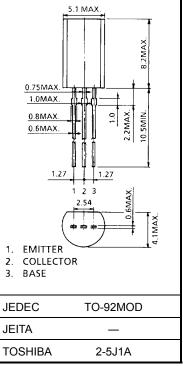
Absolute Maximum Ratings (Ta = 25°C)

Characteristics	Symbol	Rating	Unit
Collector-base voltage	V _{CBO}	-30	V
Collector-emitter voltage	V _{CEO}	-30	V
Emitter-base voltage	V _{EBO}	-5	V
Collector current	Ι _C	-1.5	А
Emitter current	ΙE	1.5	A
Collector power dissipation	P _C	900	mW
Junction temperature	Tj	150	°C
Storage temperature range	T _{stg}	-55 to 150	°C



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).



Weight: 0.36 g (typ.)

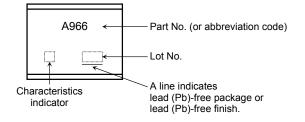
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Electrical Characteristics (Ta = 25°C)

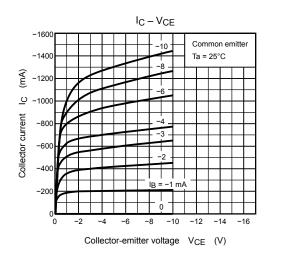
Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Collector cut-off current	I _{CBO}	$V_{CB} = -30 \text{ V}, \text{ I}_{E} = 0$	_	—	-100	nA
Emitter cut-off current	I _{EBO}	$V_{EB} = -5 V, I_C = 0$	_	_	-100	nA
Collector-emitter breakdown voltage	V (BR) CEO	I _C = -10 mA, I _B = 0	-30	—	_	V
Emitter-base breakdown voltage	V (BR) EBO	$I_{\rm E} = -1 {\rm mA}, I_{\rm C} = 0$	-5	_	_	V
DC current gain	h _{FE} (Note)	$V_{CE} = -2 V, I_C = -500 mA$	100	_	320	
Collector-emitter saturation voltage	V _{CE (sat)}	I _C = -1.5 A, I _B = -0.03 A		_	-2.0	V
Base-emitter voltage	V _{BE}	$V_{CE} = -2 V, I_C = -500 mA$	_	_	-1.0	V
Transition frequency	f _T	$V_{CE} = -2 V, I_C = -500 mA$	—	120	_	MHz
Collector output capacitance	C _{ob}	V _{CB} = -10 V, I _E = 0, f = 1 MHz	_	40	—	pF

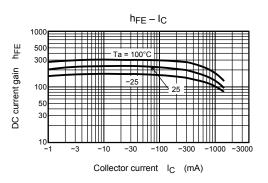
Note: h_{FE} classification O: 100 to 200, Y: 160 to 320

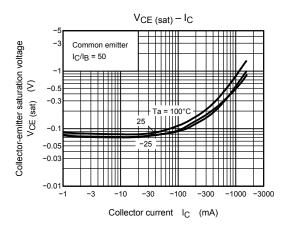
Marking

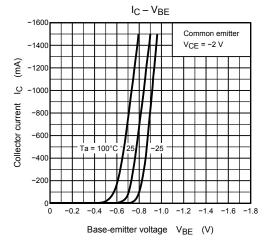


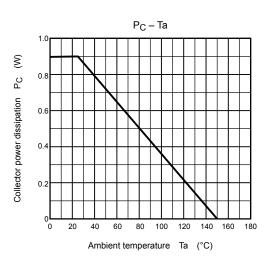
TOSHIBA

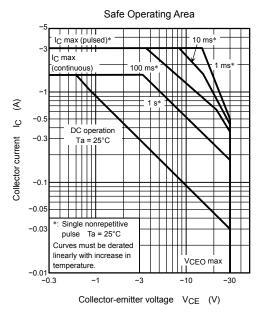












RESTRICTIONS ON PRODUCT USE

20070701-EN

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