<u>查询2SA965_07供应商</u> TOSHIBA

2SA965

Unit: mm

TOSHIBA Transistor Silicon PNP Epitaxial Type (PCT Process)



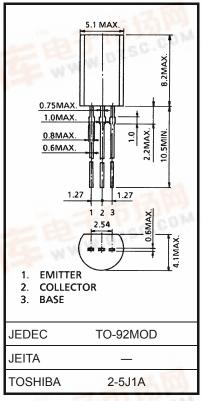
Power Amplifier Applications Driver-Stage Amplifier Applications

• Complementary to 2SC2235.

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	
Emitter current	ΙΕ	800	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).

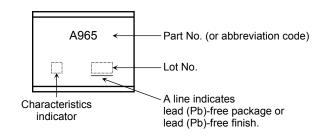


Electrical Characteristics (Ta = 25°C)

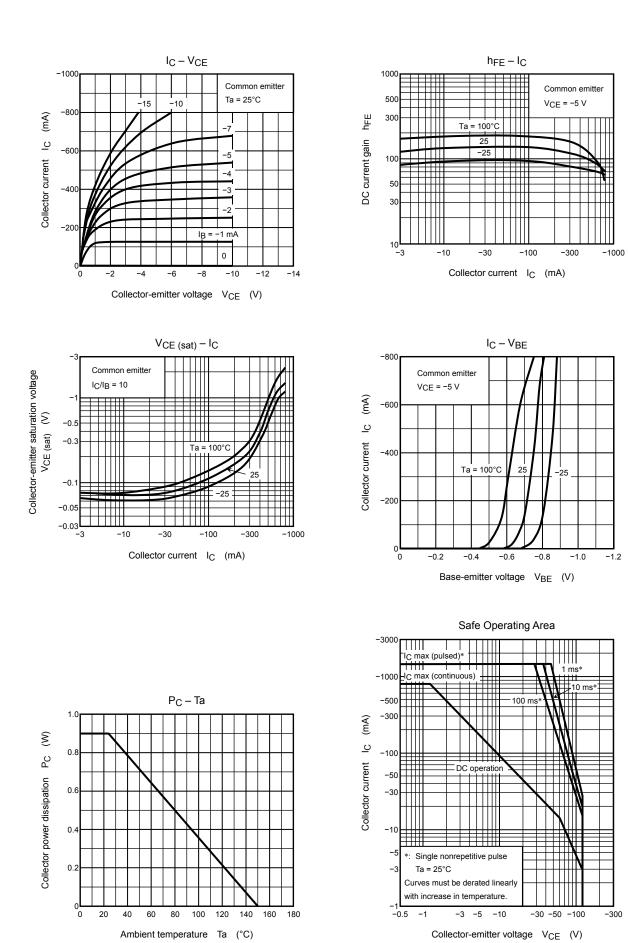
Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Collector cut-off current	I _{CBO}	V _{CB} = -120 V, I _E = 0	—	_	-100	nA
Emitter cut-off current	I _{EBO}	$V_{EB} = -5 V, I_C = 0$	_	_	-100	nA
Collector-emitter breakdown voltage	V (BR) CEO	I _C = -10 mA, I _B = 0	-120	-	_	V
Emitter-base breakdown voltage	V (BR) EBO	$I_{\rm E} = -1 {\rm mA}, I_{\rm C} = 0$	-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	fT	$V_{CE} = -5 V, I_C = -100 mA$	_	120	_	MHz
Collector output capacitance	C _{ob}	V_{CB} = -10 V, I _E = 0, f = 1 MHz	_	-	40	pF

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

Marking



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2006-11-09

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RESTRICTIONS ON PRODUCT USE

Handbook" etc.

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