TOSHIBA Transistor Silicon PNP Epitaxial Type (PCT Process)

2SA965

Power Amplifier Applications
Driver-Stage Amplifier Applications

• Complementary to 2SC2235.

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	I _C	-800	mA
Emitter current	ΙE	800	mA
Collector power dissipation	P _C	900	mW
Junction temperature	Tj	150	°C
Storage temperature range	T _{stg}	-55 to 150	°C

1. EMITTER
2. COLLECTOR
3. BASE

JEDEC TO-92MOD

JEITA —

TOSHIBA 2-5J1A

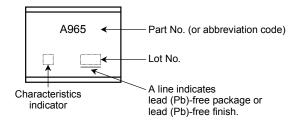
Weight: 0.36 g (typ.)

Electrical Characteristics (Ta = 25°C)

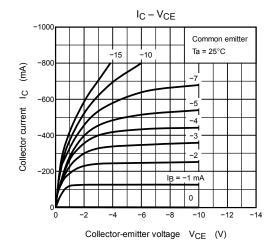
Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Collector cut-off current	I _{CBO}	V _{CB} = -120 V, I _E = 0	_	_	-100	nA
Emitter cut-off current	I _{EBO}	$V_{EB} = -5 \text{ V}, I_{C} = 0$	_	_	-100	nA
Collector-emitter breakdown voltage	V (BR) CEO	$I_C = -10 \text{ mA}, I_B = 0$	-120	_	_	V
Emitter-base 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)}	$I_C = -500 \text{ mA}, I_B = -50 \text{ mA}$	_	_	-1.0	V
Base-emitter voltage	V _{BE}	V _{CE} = -5 V, I _C = -500 mA	_	_	-1.0	V
Transition frequency	f _T	$V_{CE} = -5 \text{ V, } I_{C} = -100 \text{ mA}$	_	120	_	MHz
Collector output capacitance	C _{ob}	V _{CB} = -10 V, I _E = 0, f = 1 MHz	_	_	40	pF

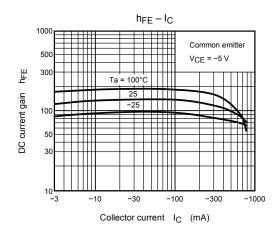
Note: hFE classification O: 80 to 160, Y: 120 to 240

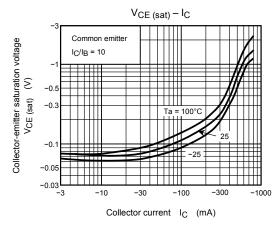
Marking

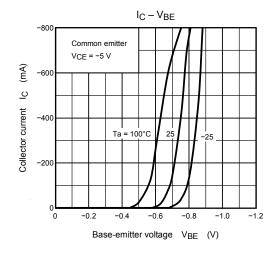


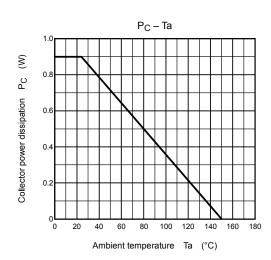
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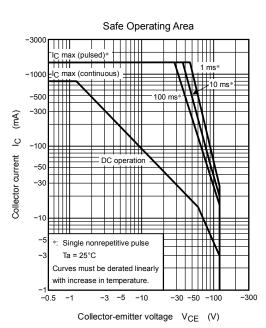












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Handbook" etc..

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