TOSHIBA Transistor Silicon PNP Epitaxial Type (PCT process)

2SA1150

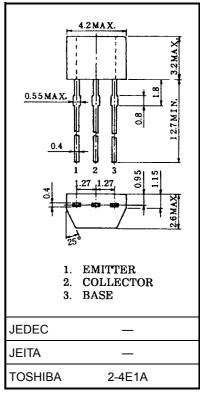
Low Frequency Amplifier Applications

Unit: mm

High hFE: hFE = 100~320Complementary to 2SC2710.

Maximum Ratings (Ta = 25°C)

Characteristics	Symbol	Rating	Unit
Collector-base voltage	V_{CBO}	-35	V
Collector-emitter voltage	V _{CEO}	-30	V
Emitter-base voltage	V _{EBO}	-5	V
Collector current	IC	-800	mA
Base current	Ι _Β	-160	mA
Collector power dissipation	PC	300	mW
Junction temperature	Tj	150	°C
Storage temperature range	T _{stg}	-55~150	°C



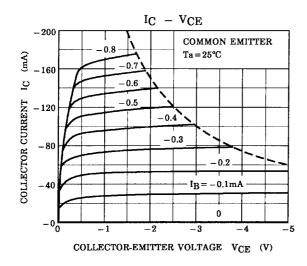
Weight: 0.13 g (typ.)

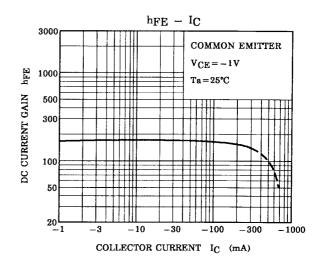
Electrical Characteristics (Ta = 25°C)

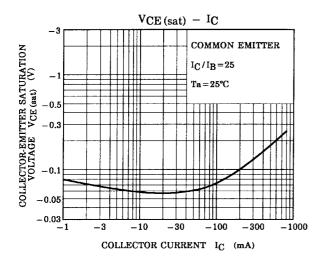
Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Collector cut-off current	I _{CBO}	$V_{CB} = -30 \text{ V}, I_E = 0$	_	_	-0.1	μА
Emitter cut-off current	I _{EBO}	$V_{EB} = -5 \text{ V}, I_C = 0$	_	_	-0.1	μΑ
Collector-emitter breakdown voltage	V (BR) CEO	$I_C = -10 \text{ mA}, I_B = 0$	-30	_	_	V
DC current gain	h _{FE (1)} (Note)	V _{CE} = -1 V, I _C = -100 mA	100	_	320	
	h _{FE (2)}	$V_{CE} = -1 \text{ V, } I_{C} = -700 \text{ mA}$	35	_	_	
Collector-emitter saturation voltage	V _{CE (sat)}	$I_C = -500 \text{ mA}, I_B = -20 \text{ mA}$	_	_	-0.7	V
Base-emitter voltage	V _{BE}	$V_{CE} = -1 \text{ V, } I_{C} = -10 \text{ mA}$	-0.5	_	-0.8	V
Transition frequency	f _T	$V_{CE} = -5 \text{ V}, I_{C} = -10 \text{ mA}$	_	120	_	MHz
Collector output capacitance	C _{ob}	$V_{CB} = -10 \text{ V}, I_{E} = 0, f = 1 \text{ MHz}$	_	19	_	pF

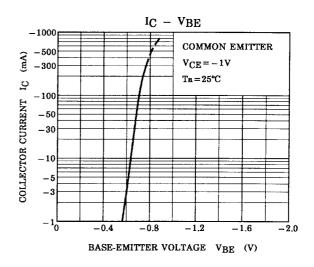
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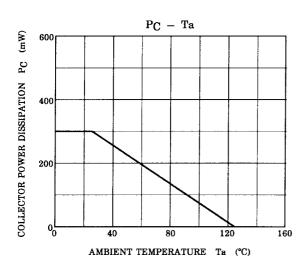
Note: h_{FE (1)} classification O: 100~200, Y: 160~320











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