

RN2210,RN2211

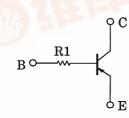
TOSHIBA Transistor Silicon PNP Epitaxial Type (PCT Process)

RN2210,RN2211

Switching, Inverter Circuit, Interface Circuit And Driver Circuit Applications

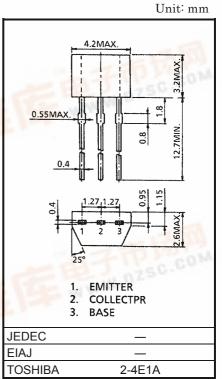
- With built-in bias resistors
- Simplify circuit design
- Reduce a quantity of parts and manufacturing process
- Complementary to RN1210, 1211

Equivalent Circuit



Maximum Ratings (Ta = 25°C)

Characterisstic	Symbol	Rating	Unit
Collector-base voltage	V _{CBO}	-50	V
Collector-emitter voltage	V _{CEO}	-50	V
Emitter-base voltage	V _{EBO}	-5	V
Collector current	۱ _C	-100	mA
Collector power dissipation	PC	300	mW
Junction temperature	Тј	150	°C
Storage temperature range	T _{stg}	-55~150	°C



Weight: 0.13g

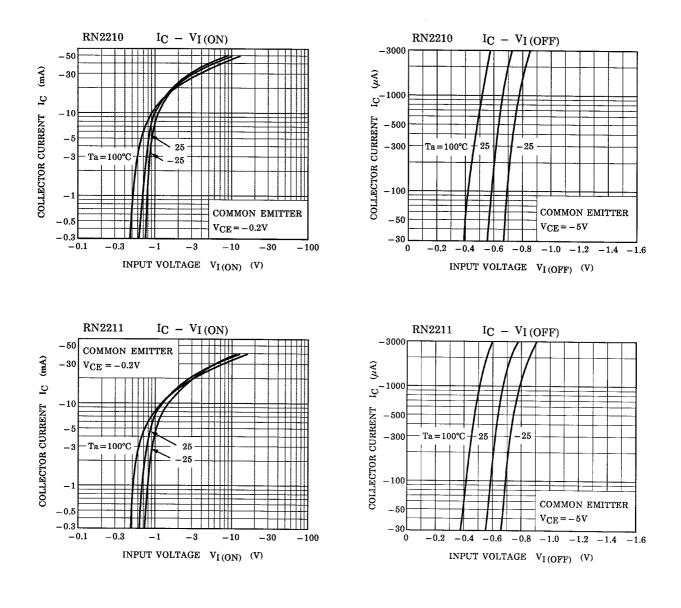


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Electrical Characteristics (Ta = 25°C)

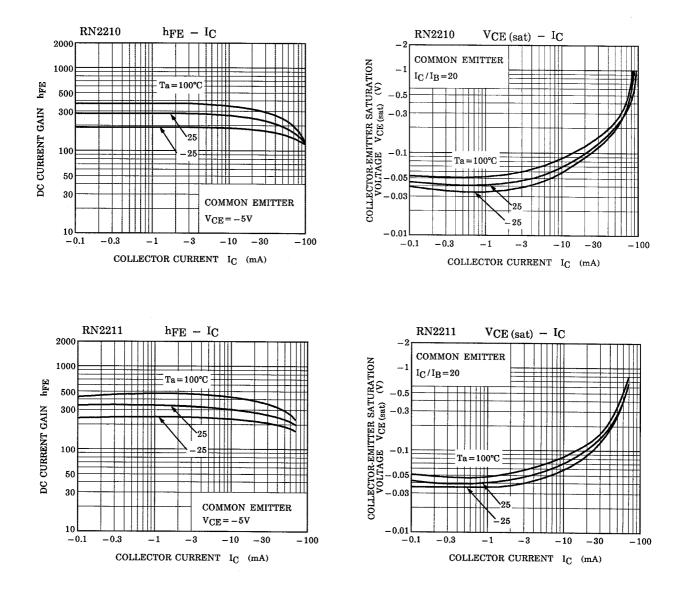
Characteristic		Symbol	Test Circuit	Test Condition	Min	Тур.	Max	Unit
Collector cut-off current		I _{CBO}	-	$V_{CB} = -50V, I_E = 0$	-	_	-100	nA
Emitter cut-off current		I _{EBO}	-	$V_{EB} = -5V, I_{C} = 0$	-	_	-100	nA
DC current gain		h _{FE}	_	V _{CE} = −5V, I _C = −1mA	120	_	400	_
Collector-emitter saturation voltage		V _{CE (sat)}	_	I _C = −5mA, I _B = −0.25mA	_	-0.1	-0.3	V
Translation frequency		f _T	_	V _{CE} = −10V, I _C = −5mA	_	200	_	MHz
Collector output capacitance		C _{ob}	_	V _{CB} = -10V, I _E = 0, f = 1MHz		3	6	pF
Input resistor	RN2210	D1	.1 —		3.29	4.7	6.11	kΩ
	RN2211	KI		-		7	10	13

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