

TOSHIBA Transistor Silicon PNP Epitaxial Type (PCT Process)

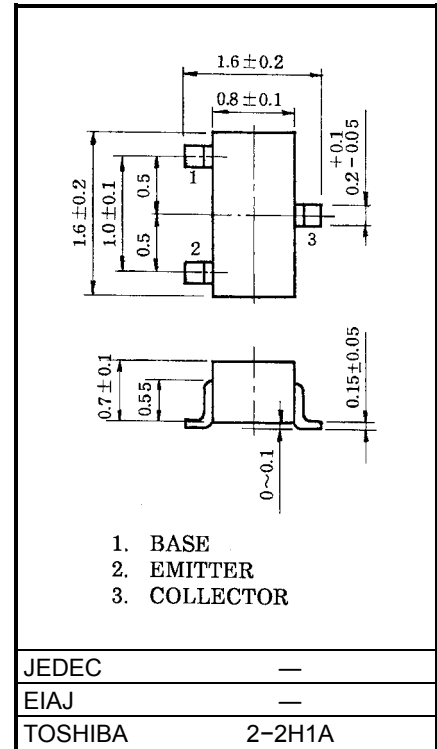
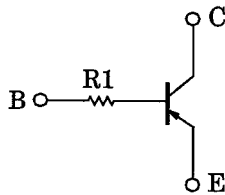
RN2110,RN2111

Switching, Inverter Circuit, Interface Circuit and Driver Circuit Applications

Unit: mm

- With built-in bias resistors
- Simplify circuit design
- Reduce a quantity of parts and manufacturing process
- Complementary to RN1110, RN1111

Equivalent Circuit



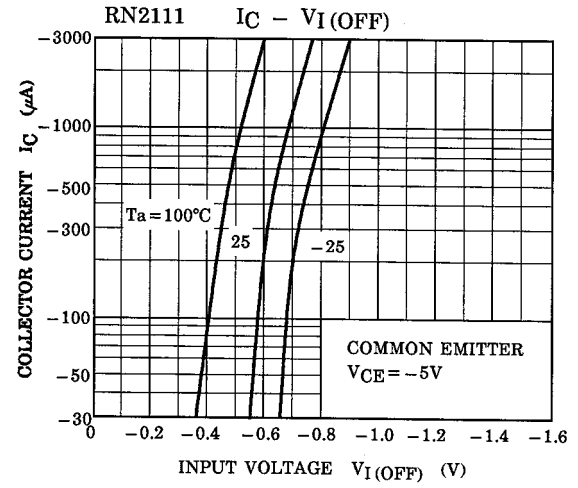
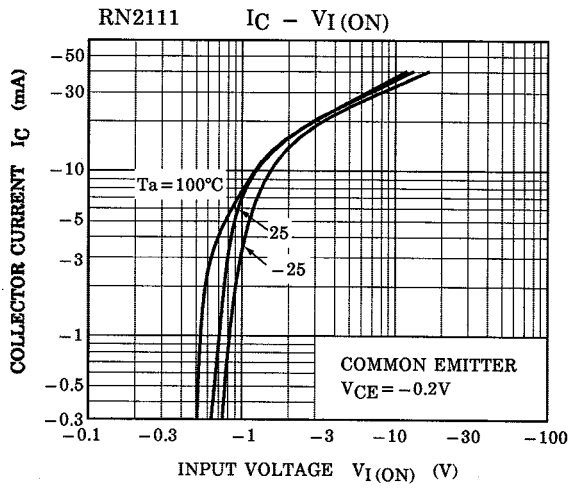
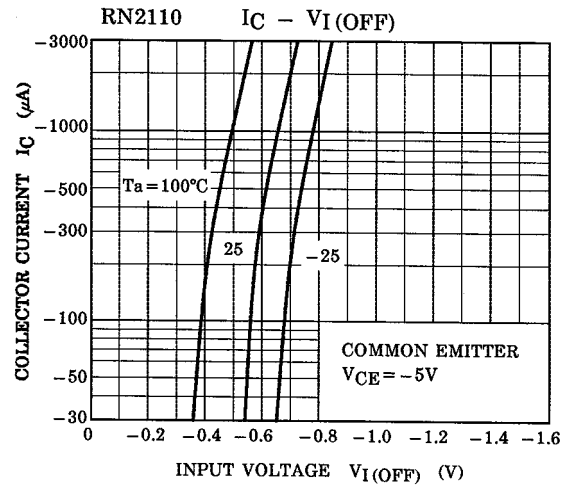
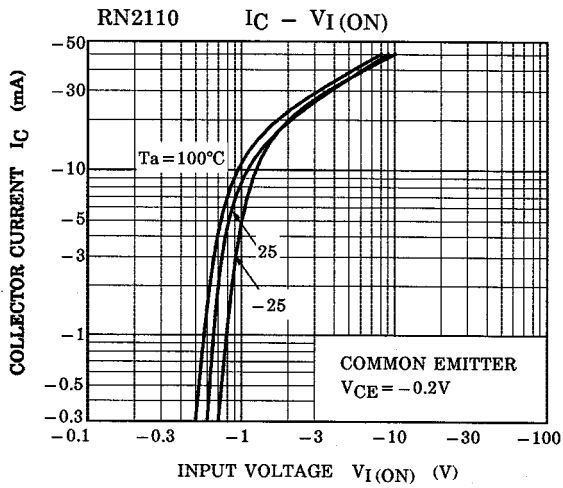
Weight: 2.4mg

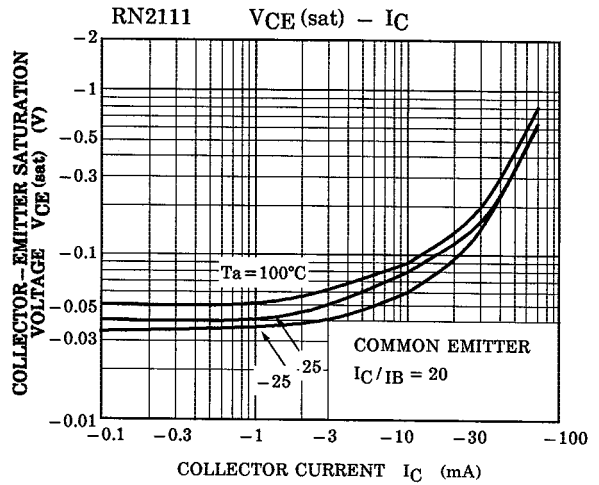
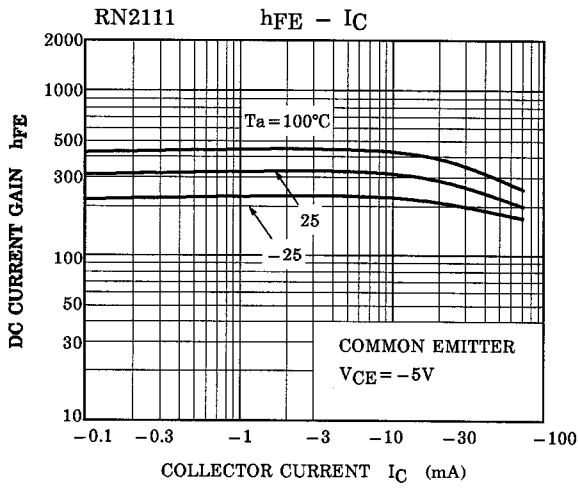
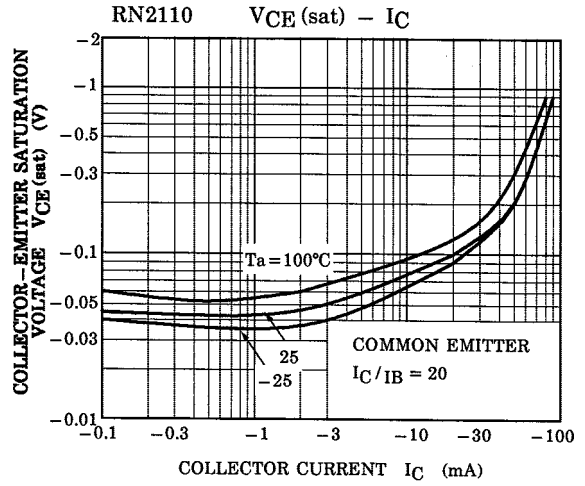
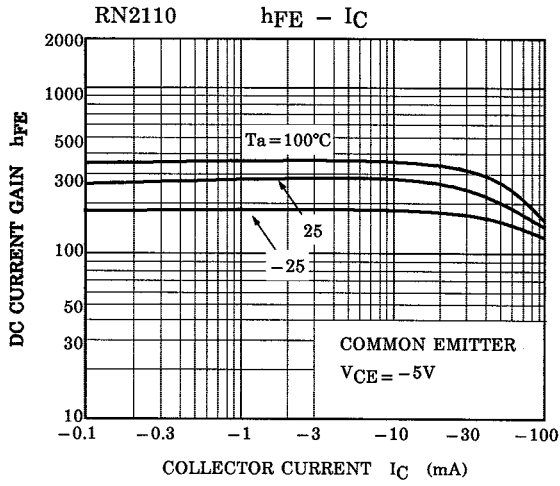
Maximum Ratings (Ta = 25°C)

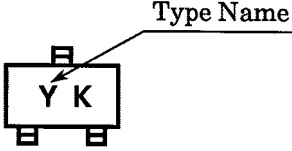
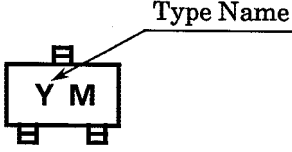
Characteristic	Symbol	Rating	Unit
Collector-base voltage	V _{CB0}	-50	V
Collector-emitter voltage	V _{CEO}	-50	V
Emitter-base voltage	V _{EB0}	-5	V
Collector current	I _C	-100	mA
Collector power dissipation	P _C	100	mW
Junction temperature	T _j	150	°C
Storage temperature range	T _{stg}	-55~150	°C

Electrical Characteristics (Ta = 25°C)

Characteristic	Symbol	Test Circuit	Test Condition	Min	Typ.	Max	Unit
Collector cut-off current	I _{CB0}	—	V _{CB} = -50V, I _E = 0	—	—	-100	nA
Emitter cut-off current	I _{EB0}	—	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
Transition 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	RN2110	R1	—	3.29	4.7	6.11	kΩ
	RN2111			7	10	13	





Type Name	Marking
RN2110	 <p>The diagram shows a rectangular component with two pins at the bottom. Inside the rectangle, the letters 'Y K' are printed. A line points from the text 'Type Name' to the 'Y' character.</p>
RN2111	 <p>The diagram shows a rectangular component with two pins at the bottom. Inside the rectangle, the letters 'Y M' are printed. A line points from the text 'Type Name' to the 'Y' character.</p>

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