

TOSHIBA Transistor Silicon PNP Epitaxial Type (PCT Process)

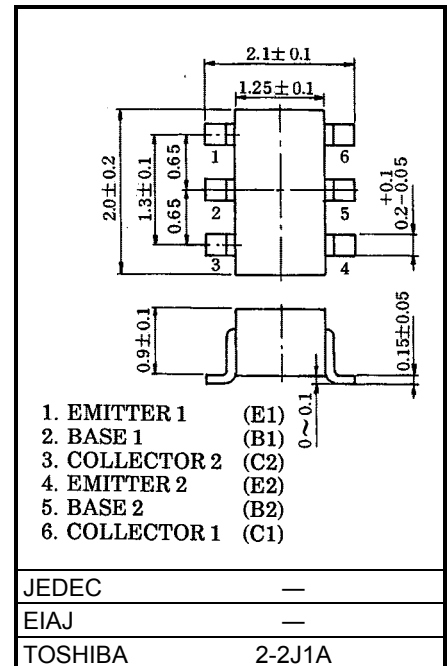
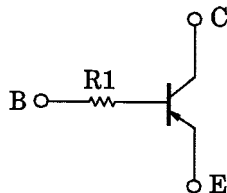
RN2910,RN2911

Switching, Inverter Circuit, Interface Circuit
And Driver Circuit Applications

Unit: mm

- Including two devices in US6 (ultra super mini type with 6 leads)
- With built-in bias resistors
- Simplify circuit design
- Reduce a quantity of parts and manufacturing process
- Complementary to RN1910, RN1911

Equivalent Circuit



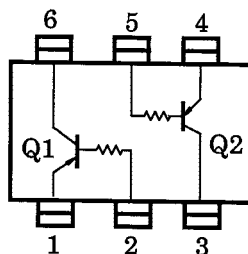
Weight: 6.8mg

Maximum Ratings (Ta = 25°C) (Q1, Q2 Common)

Characterisctic	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	I_C	-100	mA
Collector power dissipation	P_C^*	200	mW
Junction temperature	T_j	150	°C
Storage temperature range	T_{stg}	-55~150	°C

*: Total rating

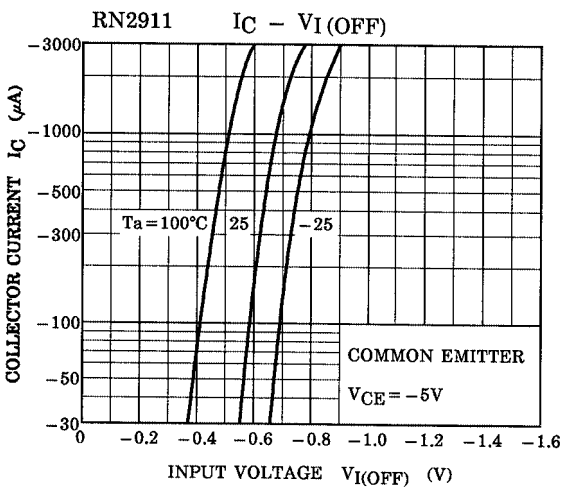
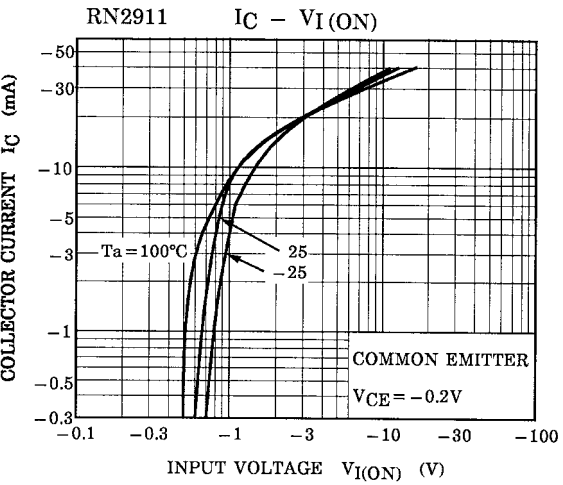
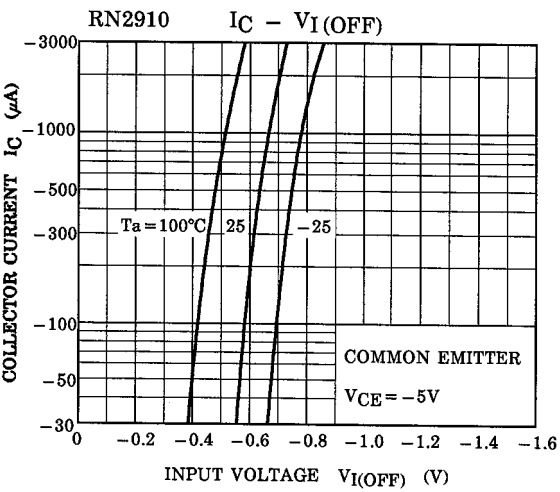
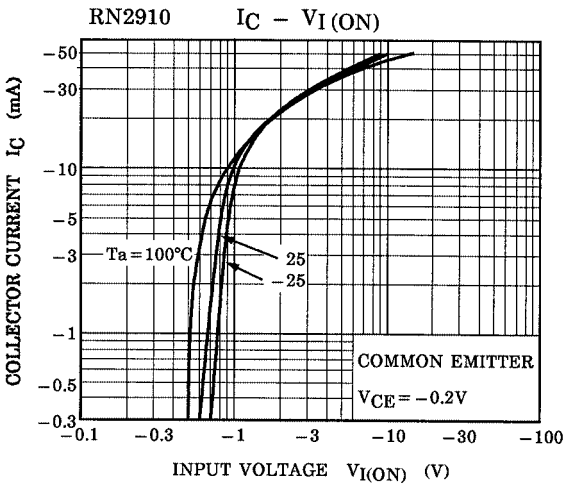
Equivalent Circuit (Top View)

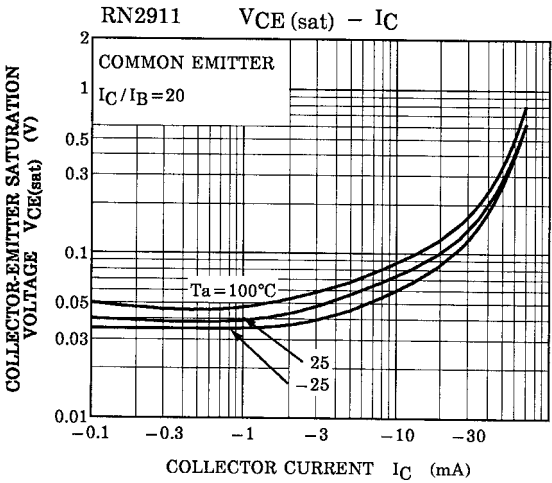
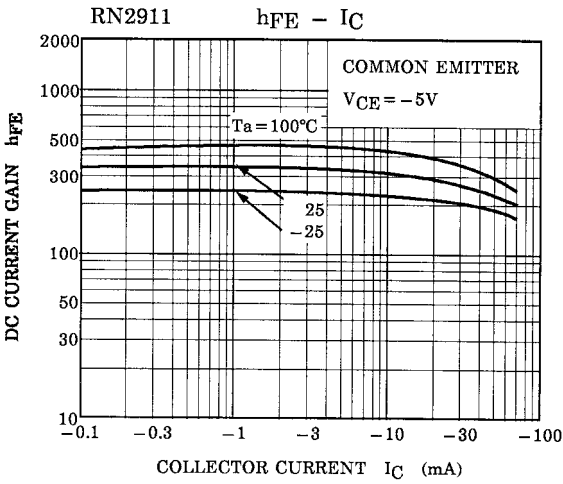
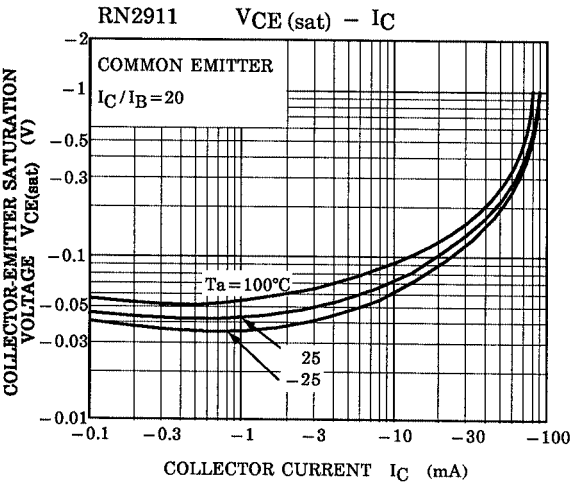
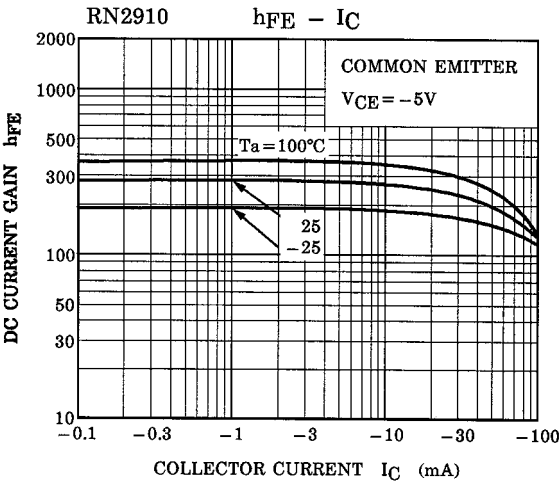


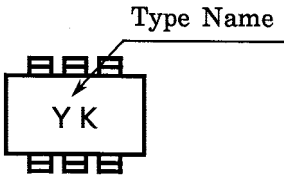
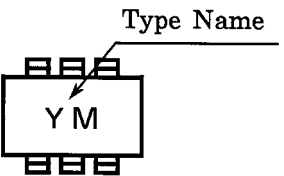
Electrical Characteristics (Ta = 25°C)

Characteristic		Symbol	Test Circuit	Test Condition	Min	Typ.	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}	—	$V_{CB} = -10V, I_E = 0V, f = 1MHz$	—	3	6	pF
Input resistor	RN2910	—	—	—	3.29	4.7	6.11	kΩ
	RN2911				7	10	13	

(Q1, Q2 Common)





Type Name	Marking
RN2910	 The diagram shows a rectangular component with four pins on each of the top and bottom edges. Inside the rectangle, the characters 'Y K' are printed. An arrow points from the text 'Type Name' to the 'Y' character.
RN2911	 The diagram shows a rectangular component with four pins on each of the top and bottom edges. Inside the rectangle, the characters 'Y M' are printed. An arrow points from the text 'Type Name' to the 'Y' character.

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