

TOSHIBA Transistor Silicon PNP Epitaxial Type (PCT Process)

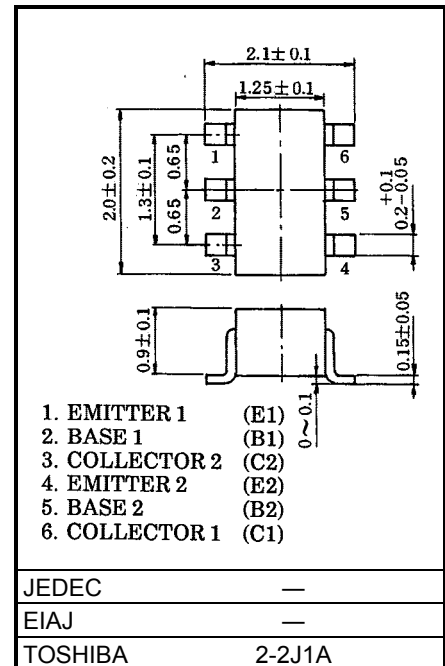
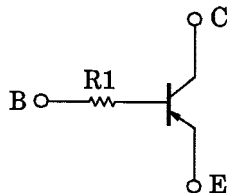
RN2910,RN2911

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



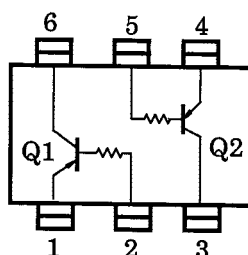
Weight: 6.8mg

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

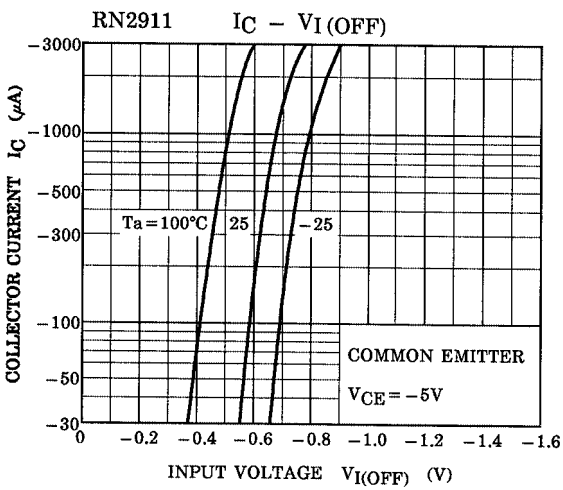
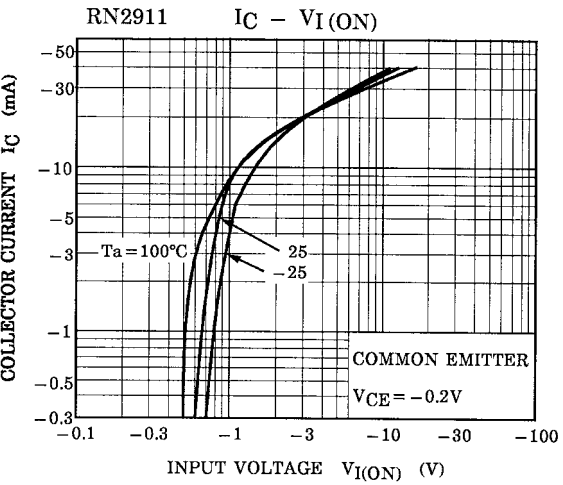
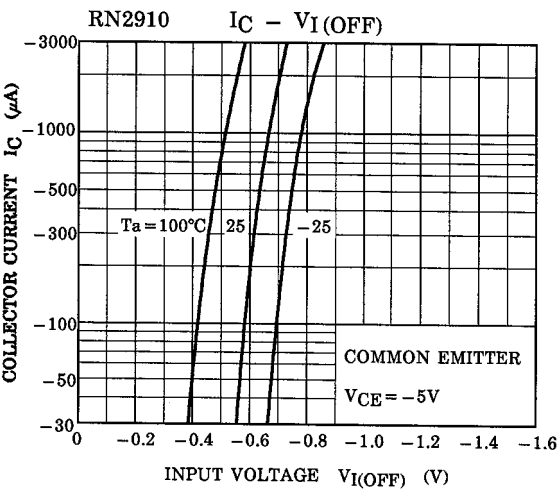
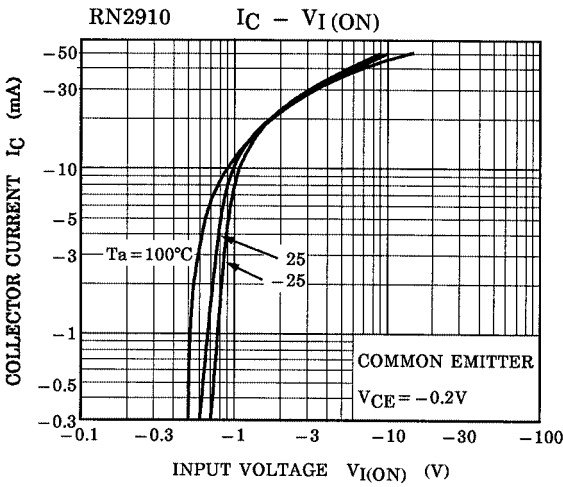
Equivalent Circuit (Top View)

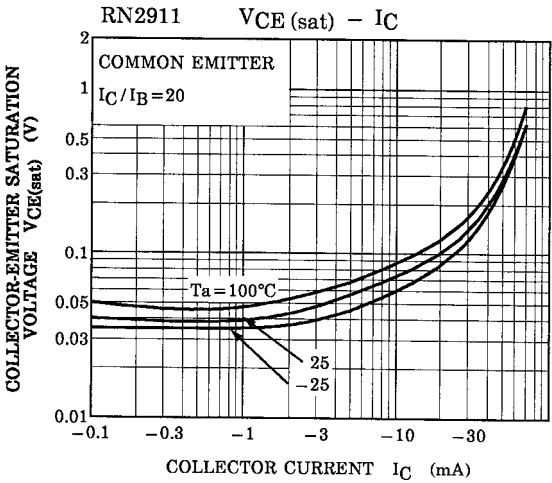
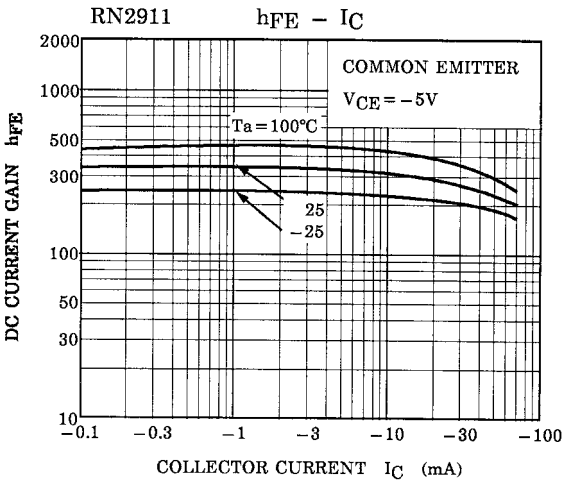
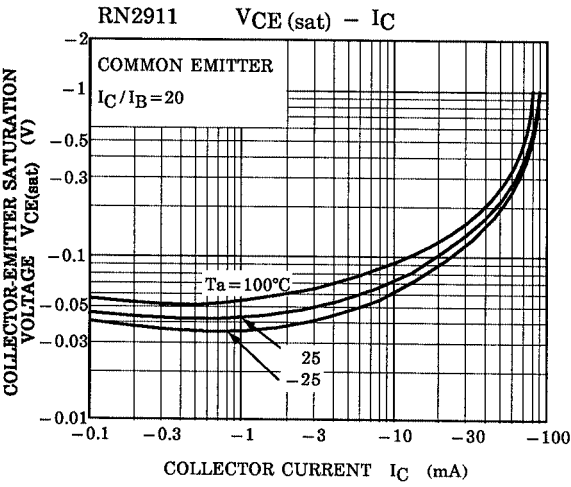
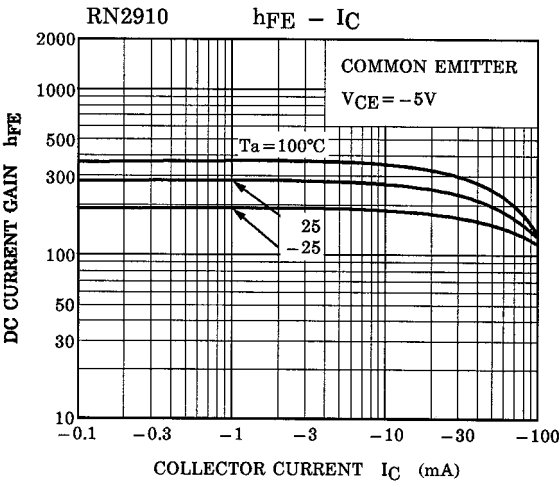


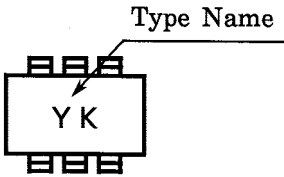
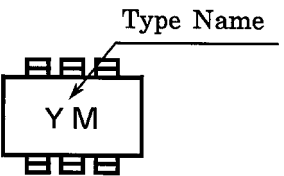
Electrical Characteristics (Ta = 25°C)

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 'Y K' printed in the center. Above the component, the text 'Type Name' is written with a line pointing to the top edge of the component. The component has four pins on the top and four pins on the bottom, each represented by a small rectangle with a vertical line through it.
RN2911	 The diagram shows a rectangular component with 'Y M' printed in the center. Above the component, the text 'Type Name' is written with a line pointing to the top edge of the component. The component has four pins on the top and four pins on the bottom, each represented by a small rectangle with a vertical line through it.

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