

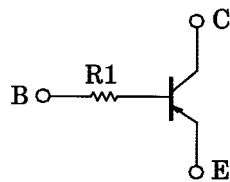
TOSHIBA Transistor Silicon PNP Epitaxial Type (PCT Process)

# RN2610,RN2611

Switching, Inverter Circuit, Interface Circuit  
And Driver Circuit Applications

- Including twodevices in SM6 (super mini type with 6 leads)
- With built-in bias resistors
- Simplify circuit design
- Reduce a quantity of parts and manufacturing process
- Complementary to RN1610~RN1611

## Equivalent Circuit

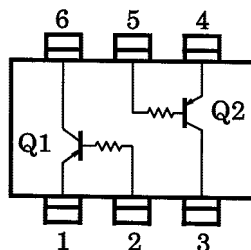


## Maximum Ratings (Ta = 25°C) (Q1, Q2 common)

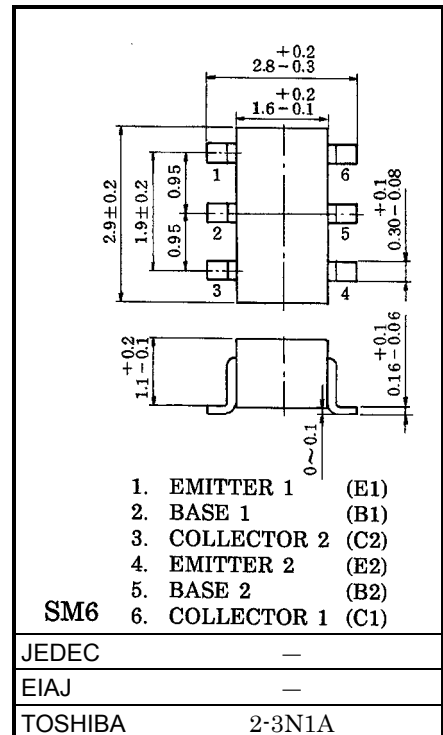
Characteristic	Symbol	Rating	Unit
Collector-base voltage	$V_{CBO}$	-50	V
Collector-emitter voltage	$V_{CEO}$	-50	V
Emitter-base voltage	$V_{EBO}$	-5	V
Collector current	$I_C$	-100	mA
Collector power dissipation	$P_C^*$	300	mW
Junction temperature	$T_j$	150	°C
Storage temperature range	$T_{stg}$	-55~150	°C

\* Total rating

## Equivalent Circuit (Top View)



Unit in mm

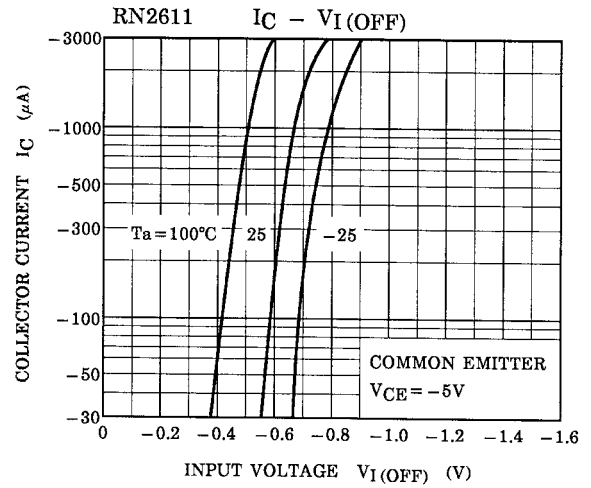
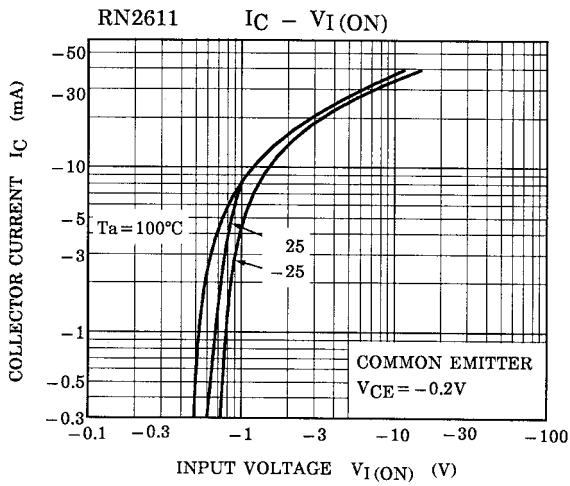
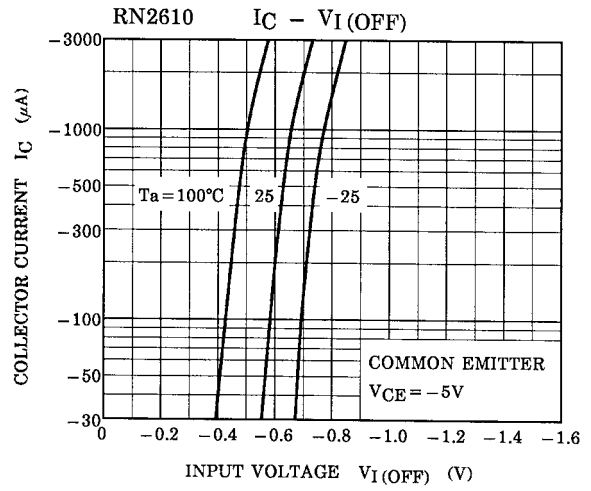
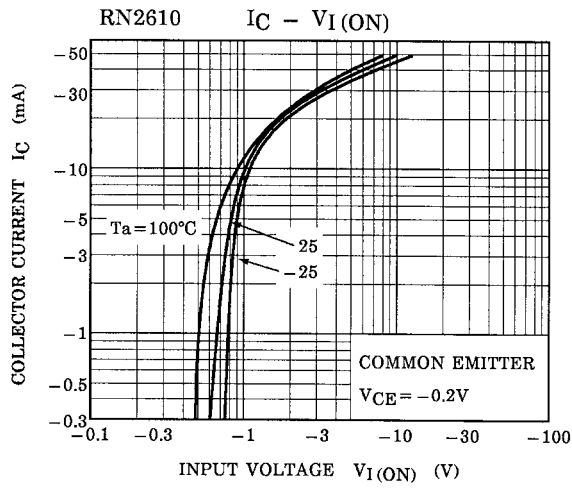


Weight: 0.015g

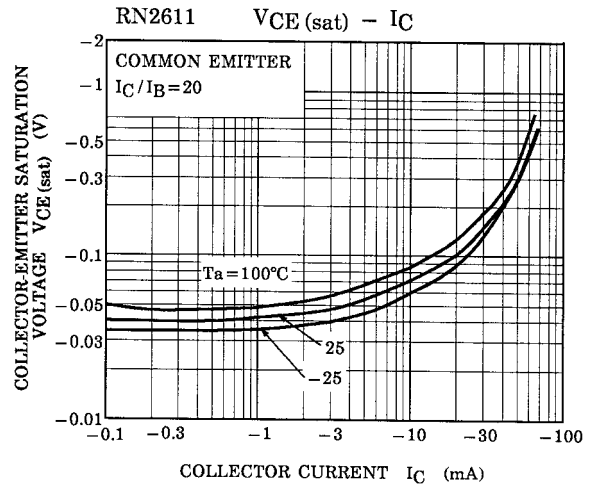
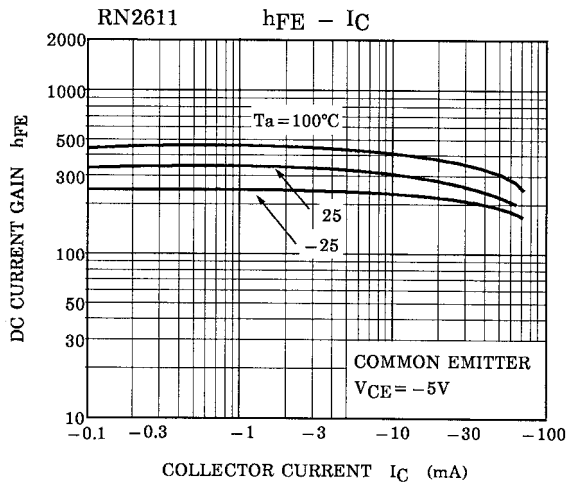
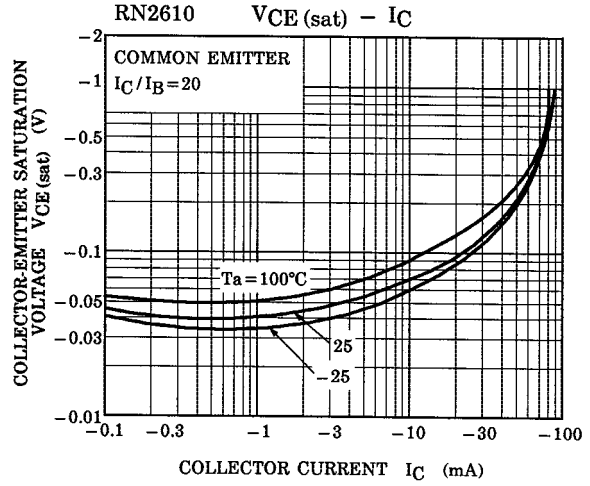
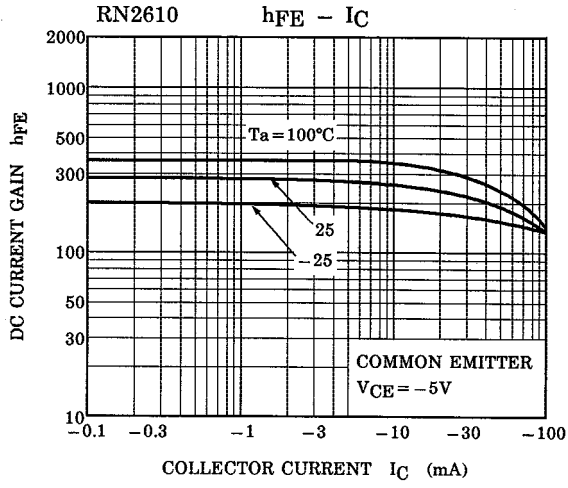
## Electrical Characteristics (Ta = 25°C) (Q1, Q2 Common)

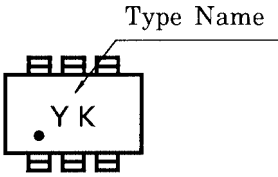
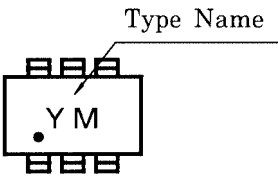
Characteristic	Symbol	Test Circuit	Test Condition	Min	Typ.	Max	Unit
Collector cut-off current	$I_{CBO}$	—	$V_{CB} = -50V, I_E = 0$	—	—	-100	nA
Emitter cut-off current	$I_{EBO}$	—	$V_{EB} = -5V, I_C = 0$	—	—	-100	nA
DC current gain	$h_{FE}$	—	$V_{CE} = -5V, I_C = -1mA$	120	—	400	—
Collector-emitter saturation 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	$C_{ob}$	—	$V_{CB} = -10V, I_E = 0, f = 1MHz$	—	3	6	pF
Input resistor	RN2610	R1	—	3.29	4.7	6.11	kΩ
	RN2611			7	10	13	

(Q1, Q2 Common)



(Q1, Q2 Common)



Type Name	Marking
RN2610	 <p>The diagram shows a rectangular component with four pins on the top and four on the bottom. In the center, there is a dot followed by the letters 'Y K'. A line points from the text 'Type Name' to the top-right corner of the component.</p>
RN2611	 <p>The diagram shows a rectangular component with four pins on the top and four on the bottom. In the center, there is a dot followed by the letters 'Y M'. A line points from the text 'Type Name' to the top-right corner of the component.</p>

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