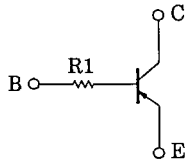
RN2910, RN2911

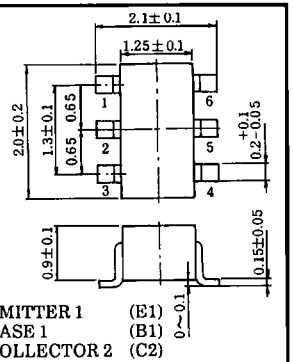
SWITCHING, INVERTER CIRCUIT, INTERFACE CIRCUIT
AND DRIVER CIRCUIT APPLICATIONS.

- 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



Unit in mm

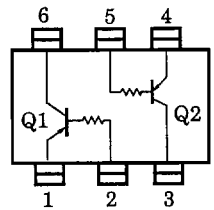


1. EMITTER 1 (E1)
2. BASE 1 (B1)
3. COLLECTOR 2 (C2)
4. EMITTER 2 (E2)
5. BASE 2 (B2)
6. COLLECTOR 1 (C1)

JEDEC	—
EIAJ	—
TOSHIBA	2-2J1A

Weight : 6.8mg

EQUIVALENT CIRCUIT (TOP VIEW)



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 *	200	mW
Junction Temperature	T_j	150	°C
Storage Temperature Range	T_{stg}	−55~150	°C

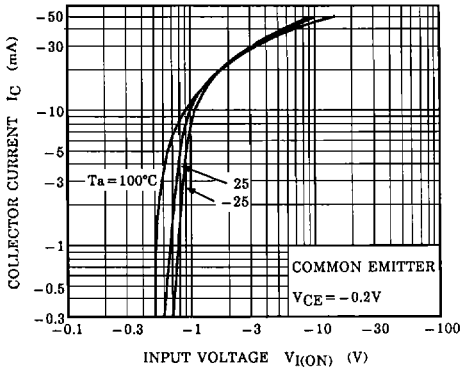
* : Total Rating

ELECTRICAL CHARACTERISTICS (Ta = 25°C)

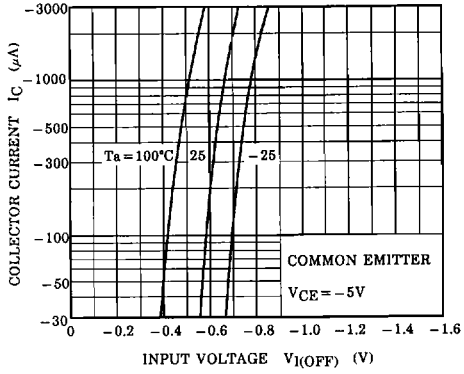
CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current		I_{CBO}	V_{CB} = −50V, I_E = 0	—	—	−100	nA
Emitter Cut-off Current		I_{EBO}	V_{EB} = −5V, I_C = 0	—	—	−100	nA
DC Current Gain		h_{FE}	V_{CE} = −5V, I_C = −1mA	120	—	400	
Collector-Emitter Saturation Voltage		$V_{CE\ (sat)}$	I_C = −5mA, I_B = −0.25mA	—	−0.1	−0.3	V
Transition 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	R1		3.29	4.7	6.11	kΩ
	RN2911			7	10	13	

(Q1, Q2 COMMON)

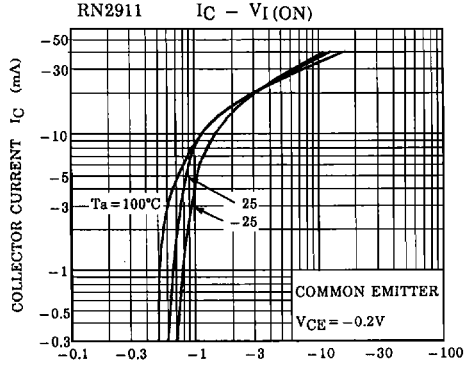
RN2910 $I_C - V_{I(ON)}$



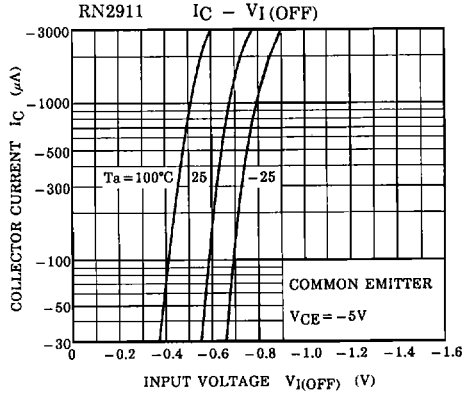
RN2910 $I_C - V_{I(OFF)}$



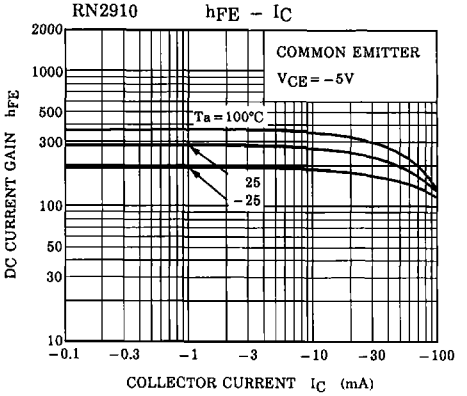
RN2911 $I_C - V_{I(ON)}$



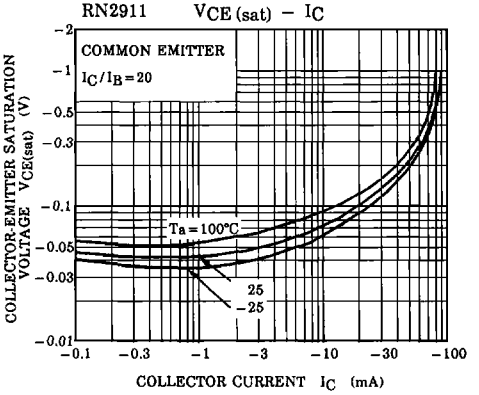
RN2911 $I_C - V_{I(OFF)}$



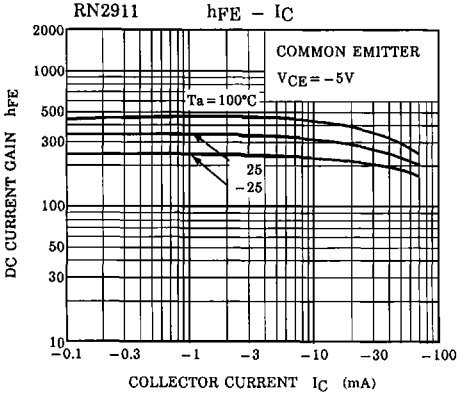
RN2910 hFE – IC



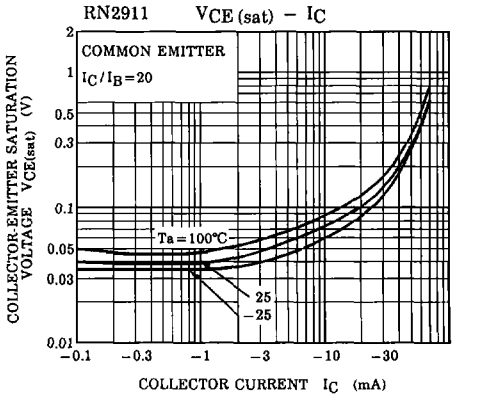
RN2911 VCE (sat) – IC



RN2911 hFE – IC



RN2911 VCE (sat) – IC



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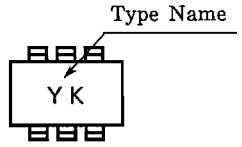
RN2910	
RN2911