

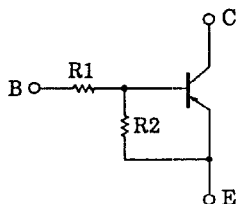
# RN2607, 2608, 2609

(RN2607)

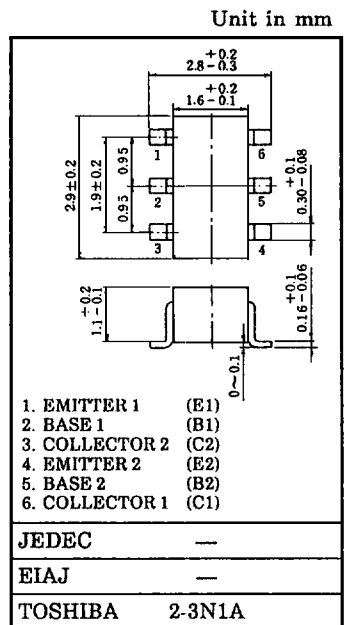
SWITCHING, INVERTER CIRCUIT, INTERFACE CIRCUIT AND DRIVER CIRCUIT APPLICATIONS.

- Including Two Devices 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 RN1607~RN1609

EQUIVALENT CIRCUIT AND BIAS RESISTOR VALUES

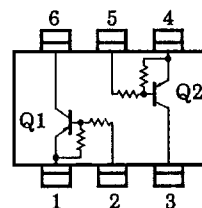


TYPE NO.	R1 (k $\Omega$ )	R2 (k $\Omega$ )
RN2607	10	47
RN2608	22	47
RN2609	47	22



Weight : 0.015g

EQUIVALENT CIRCUIT (TOP VIEW)



MAXIMUM RATINGS ( $T_a = 25^\circ\text{C}$ ) (Q1, Q2 COMMON)

CHARACTERISTIC	SYMBOL	RATING	UNIT	
Collector-Base Voltage	RN2607~2609	$V_{CBO}$	-50 V	
Collector-Emitter Voltage		$V_{CEO}$	-50 V	
Emitter-Base Voltage	RN2607	$V_{EBO}$	-6 V	
			RN2608	-7 V
			RN2609	-15 V
Collector Current	RN2607~2609	$I_C$	-100 mA	
Collector Power Dissipation		$P_C^*$	300 mW	
Junction Temperature		$T_j$	150 $^\circ\text{C}$	
Storage Temperature Range		$T_{stg}$	-55~150 $^\circ\text{C}$	

\* : Total Rating

# RN2607, 2608, 2609

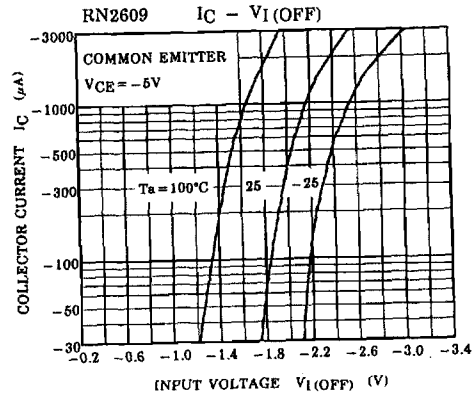
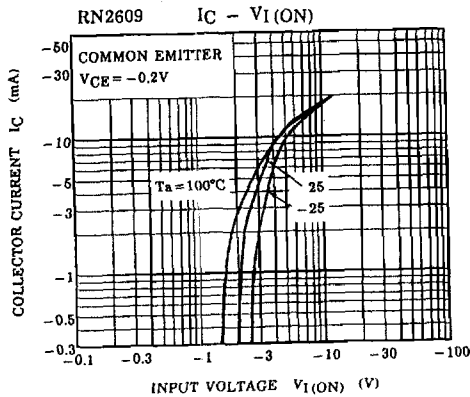
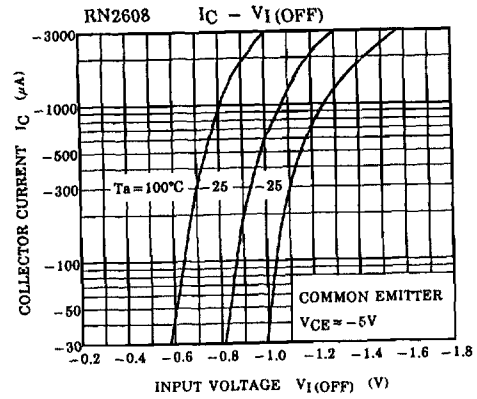
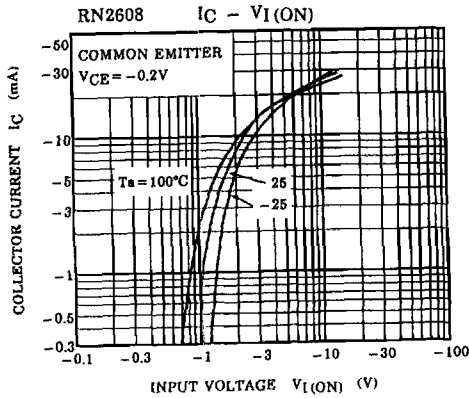
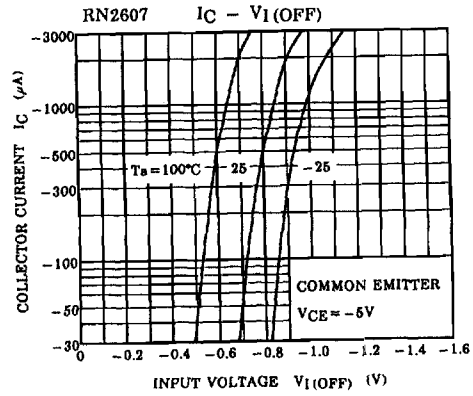
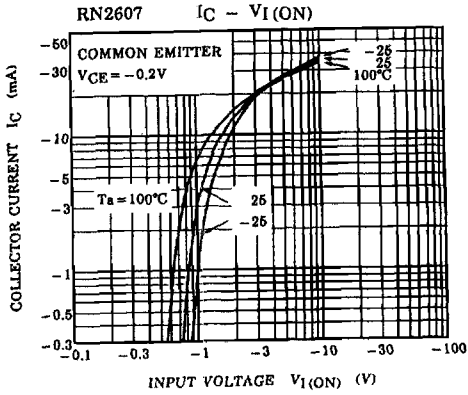
(RN2607)

ELECTRICAL CHARACTERISTICS (Ta = 25°C) (Q1, Q2 COMMON)

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	RN2607~2609	ICBO	V <sub>CB</sub> = -50V, I <sub>E</sub> = 0	—	—	-100	nA
		ICEO	V <sub>CE</sub> = -50V, I <sub>B</sub> = 0	—	—	-500	nA
Emitter Cut-off Current	RN2607	IEBO	V <sub>EB</sub> = -6V, I <sub>C</sub> = 0	-0.081	—	-0.15	mA
	RN2608			-0.078	—	-0.145	
	RN2609			-0.167	—	-0.311	
DC Current Gain	RN2607	h <sub>FE</sub>	V <sub>CE</sub> = -5V, I <sub>C</sub> = -10mA	80	—	—	
	RN2608			80	—	—	
	RN2609			70	—	—	
Collector-Emitter Saturation Voltage	RN2607~2609	V <sub>CE (sat)</sub>	I <sub>C</sub> = -5mA, I <sub>B</sub> = -0.25mA	—	-0.1	-0.3	V
Input Voltage (ON)	RN2607	V <sub>I (ON)</sub>	V <sub>CE</sub> = -0.2V, I <sub>C</sub> = -5mA	-0.7	—	-1.8	V
	RN2608			-1.0	—	-2.6	
	RN2609			-2.2	—	-5.8	
Input Voltage (OFF)	RN2607	V <sub>I (OFF)</sub>	V <sub>CE</sub> = -5V, I <sub>C</sub> = -0.1mA	-0.5	—	-1.0	V
	RN2608			-0.6	—	-1.16	
	RN2609			-1.5	—	-2.6	
Transition Frequency	RN2607~2609	f <sub>T</sub>	V <sub>CE</sub> = -10V, I <sub>C</sub> = -5mA	—	200	—	MHz
Collector Output Capacitance	RN2607~2609	C <sub>ob</sub>	V <sub>CB</sub> = -10V, I <sub>E</sub> = 0 f = 1MHz	—	3	6	pF
Input Resistor	RN2607	R1	—	7	10	13	kΩ
	RN2608			15.4	22	28.6	
	RN2609			32.9	47	61.1	
Resistor Ratio	RN2607	R1/R2	—	0.191	0.213	0.232	
	RN2608			0.421	0.468	0.515	
	RN2609			1.92	2.14	2.35	

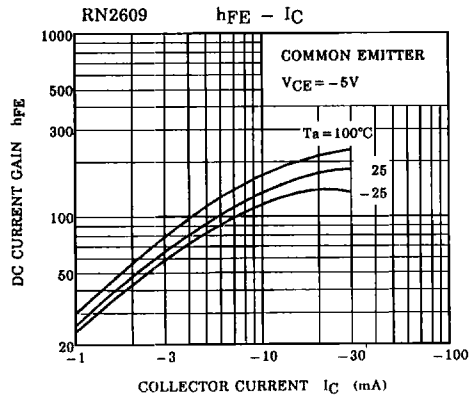
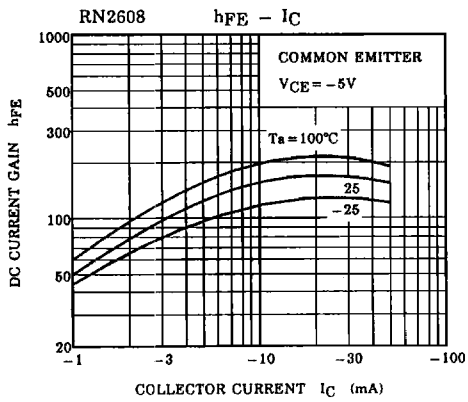
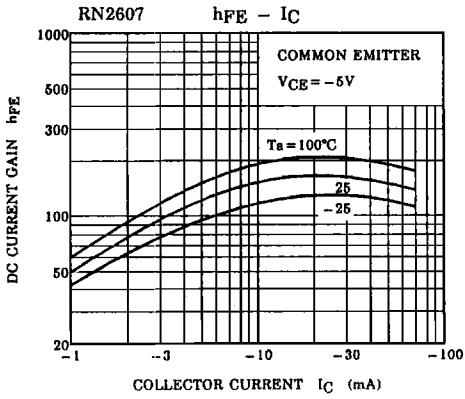
(RN2607)

(Q1, Q2 COMMON)

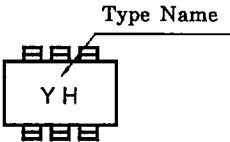
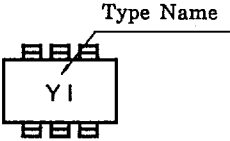


(RN2607)

(Q1, Q2 COMMON)



(RN2607)

TYPE NAME	MARKING
RN2607	
RN2608	
RN2609	