

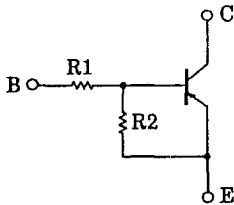
RN2601, 2602, 2603 RN2604, 2605, 2606

(RN2601)

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 RN1601~RN1606

EQUIVALENT CIRCUIT AND BIAS RESISTOR VALUES



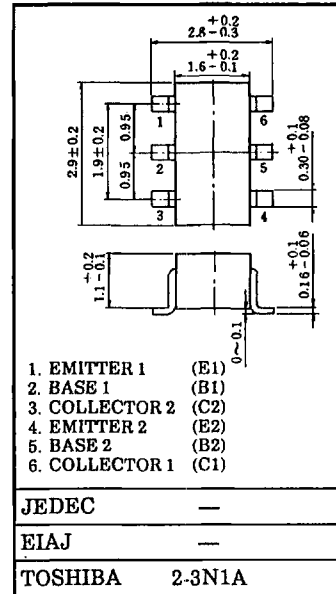
TYPE NO.	R1 (kΩ)	R2 (kΩ)
RN2601	4.7	4.7
RN2602	10	10
RN2603	22	22
RN2604	47	47
RN2605	2.2	47
RN2606	4.7	47

MAXIMUM RATINGS (Ta = 25°C) (Q1, Q2 COMMON)

CHARACTERISTIC		SYMBOL	RATING	UNIT
Collector-Base Voltage	RN2601~2606	V _{CBO}	-50	V
Collector-Emitter Voltage		V _{CEO}	-50	V
Emitter-Base Voltage	RN2601~2604	V _{EBO}	-10	V
	RN2605, 2606		-5	
Collector Current	RN2601~2606	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

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)

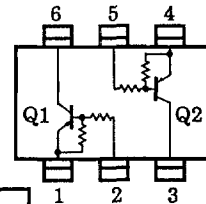
JEDEC —

EIAJ —

TOSHIBA 2-3N1A

Weight : 0.015g

EQUIVALENT CIRCUIT (TOP VIEW)



RN2601, 2602, 2603
RN2604, 2605, 2606

(RN2601)

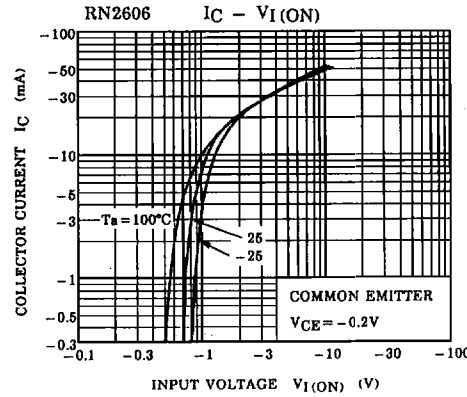
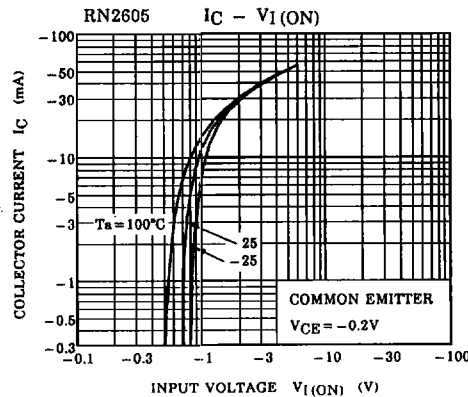
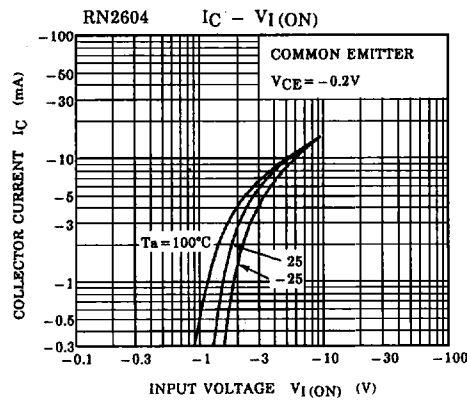
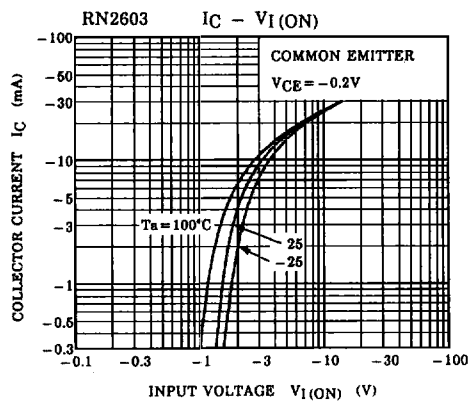
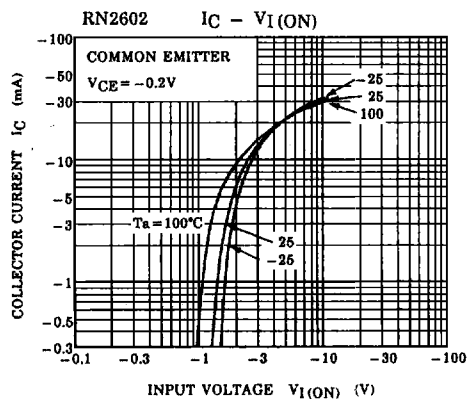
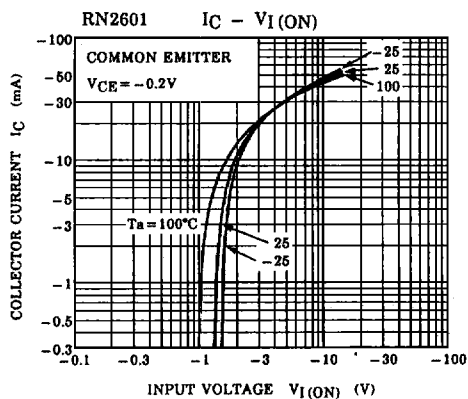
ELECTRICAL CHARACTERISTICS (Ta = 25°C) (Q1, Q2 COMMON)

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	RN2601~2606	ICBO	V _{CB} = -50V, I _E = 0	—	—	-100	nA
		ICEO	V _{CE} = -50V, I _B = 0	—	—	-500	
Emitter Cut-off Current	RN2601	I _{EBO}	V _{EB} = -10V, I _C = 0	-0.82	—	-1.52	mA
	RN2602			-0.38	—	-0.71	
	RN2603			-0.17	—	-0.33	
	RN2604		-0.082	—	-0.15		
	RN2605		V _{EB} = -5V, I _C = 0	-0.078	—	-0.145	
	RN2606			-0.074	—	-0.138	
DC Current Gain	RN2601	h _{FE}	V _{CE} = -5V, I _C = -10mA	30	—	—	
	RN2602			50	—	—	
	RN2603			70	—	—	
	RN2604			80	—	—	
	RN2605			80	—	—	
	RN2606			80	—	—	
Collector-Emitter Saturation Voltage	RN2601~2606	V _{CE(sat)}	I _C = -5mA, I _B = -0.25mA	—	-0.1	-0.3	V
Input Voltage (ON)	RN2601	V _{I(ON)}	V _{CE} = -0.2V, I _C = -5mA	-1.1	—	-2.0	V
	RN2602			-1.2	—	-2.4	
	RN2603			-1.3	—	-3.0	
	RN2604			-1.5	—	-5.0	
	RN2605			-0.6	—	-1.1	
	RN2606			-0.7	—	-1.3	
Input Voltage (OFF)	RN2601~2604	V _{I(OFF)}	V _{CE} = -5V, I _C = -0.1mA	-1.0	—	-1.5	V
	RN2605, 2606			-0.5	—	-0.8	
Transition Frequency	RN2601~2606	f _T	V _{CE} = -10V, I _C = -5mA	—	200	—	MHz
Collector Output Capacitance	RN2601~2606	C _{ob}	V _{CB} = -10V, I _E = 0 f = 1MHz	—	3	6	pF
Input Resistor	RN2601	R ₁	—	3.29	4.7	6.11	kΩ
	RN2602			7	10	13	
	RN2603			15.4	22	28.6	
	RN2604			32.9	47	61.1	
	RN2605			1.54	2.2	2.86	
	RN2606			3.29	4.7	6.11	
Resistor Ratio	RN2601~2604	R ₁ / R ₂	—	0.9	1.0	1.1	
	RN2605			0.0421	0.0468	0.0515	
	RN2606			0.09	0.1	0.11	

RN2601, 2602, 2603 RN2604, 2605, 2606

(RN2601)

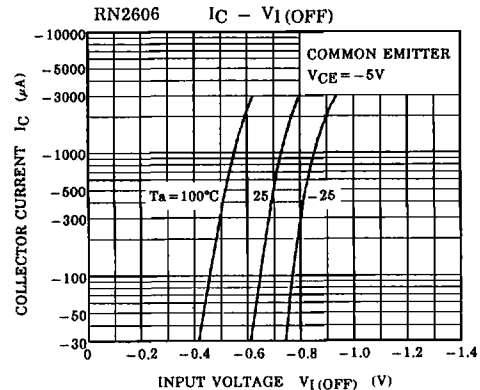
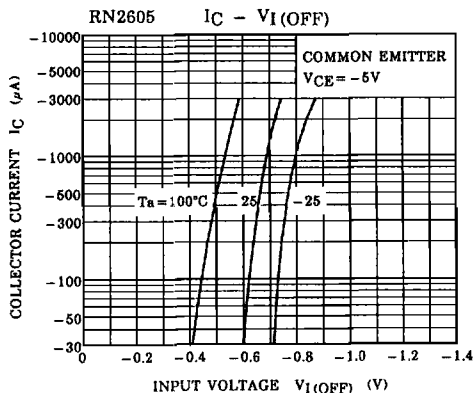
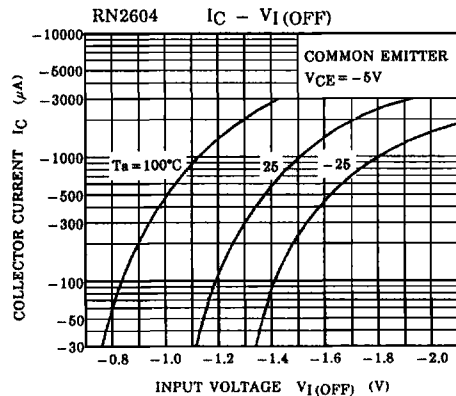
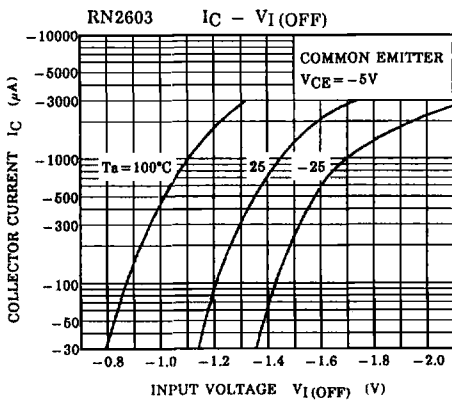
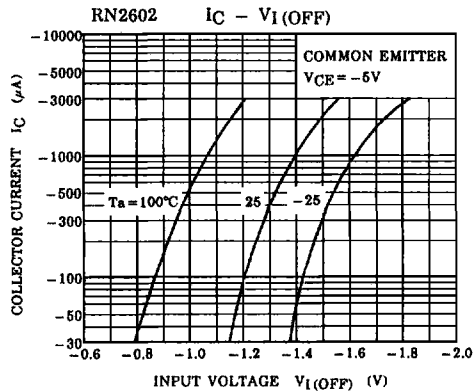
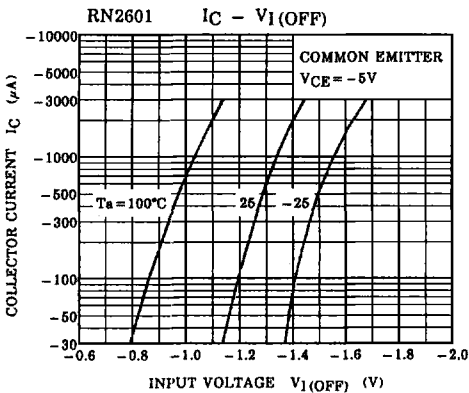
(Q1, Q2 COMMON)



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(RN2601)

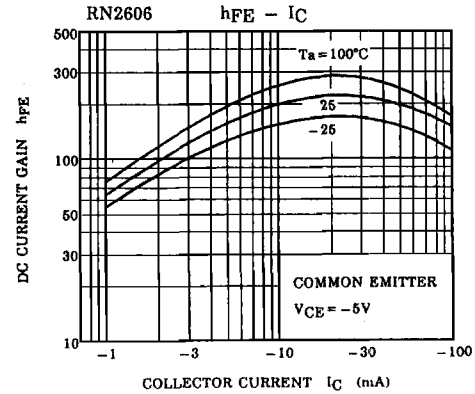
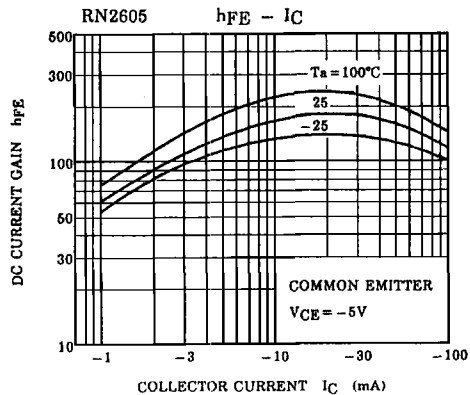
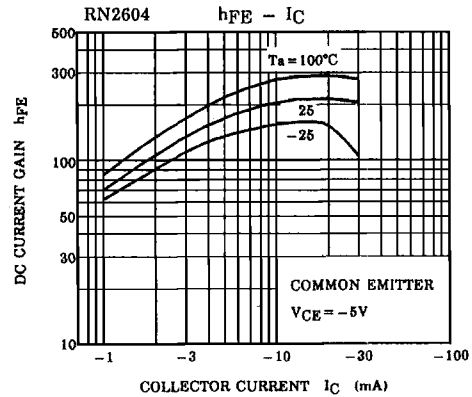
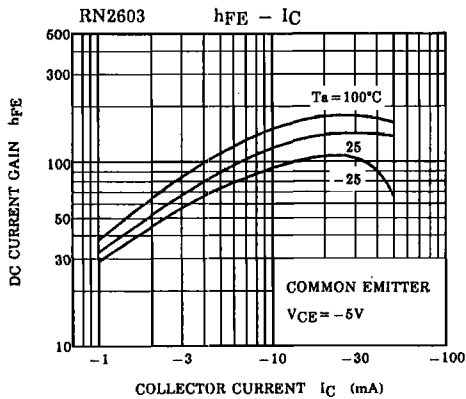
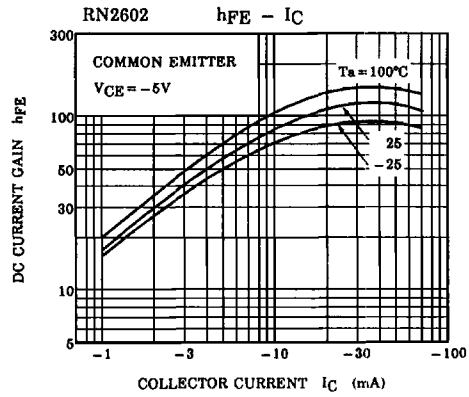
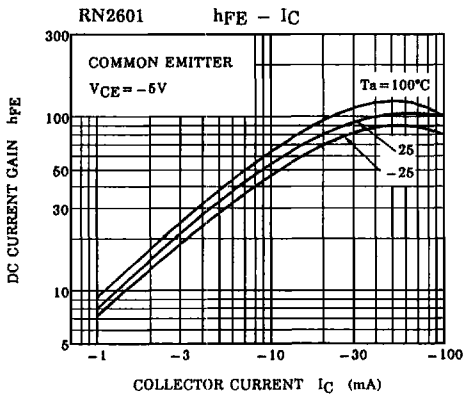
(Q1, Q2 COMMON)



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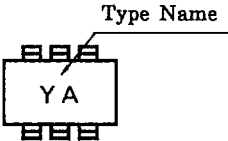
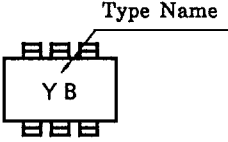
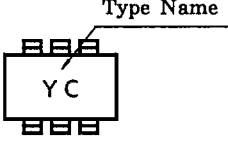
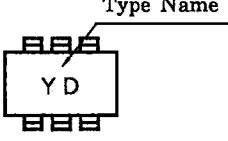
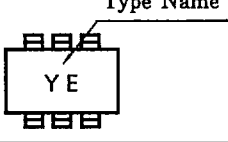
(RN2601)

(Q1, Q2 COMMON)



RN2601, 2602, 2603
RN2604, 2605, 2606

(RN2601)

TYPE NAME	MARKING
RN2601	
RN2602	
RN2603	
RN2604	
RN2605	
RN2606	