

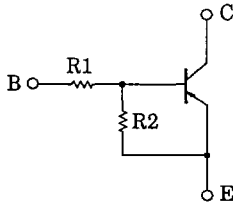
# RN2601~RN2606

SILICON PNP EPITAXIAL TYPE

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



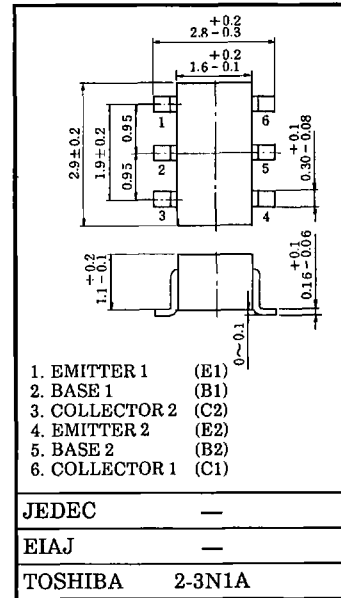
TYPE NO.	R1 (kΩ)	R2 (kΩ)
RN2601	4.7	4.7
RN2602	10	10
RN2603	22	22
RN2604	47	47
RN2605	2.2	47
RN2606	4.7	47

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

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	VCBO	-50	V
Collector-Emitter Voltage	VCEO	-50	V
Emitter-Base Voltage	VEBO	-10	V
		-5	
Collector Current	IC	-100	mA
Collector Power Dissipation	PC*	300	mW
Junction Temperature	Tj	150	°C
Storage Temperature Range	Tstg	-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)

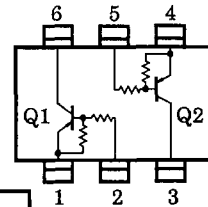
JEDEC —

EIAJ —

TOSHIBA 2-3N1A

Weight : 0.015g

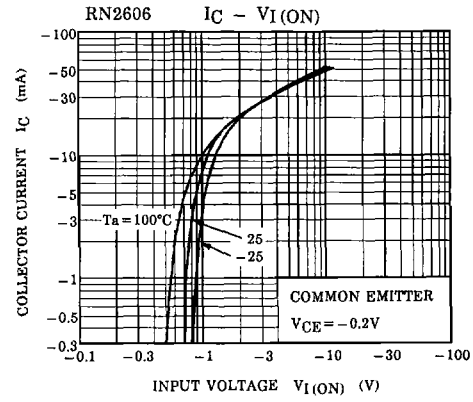
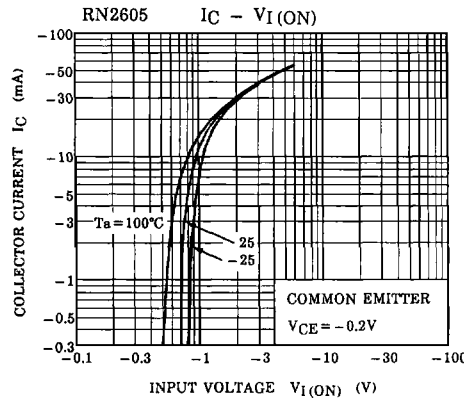
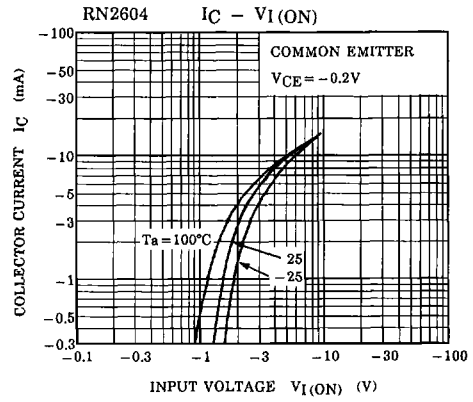
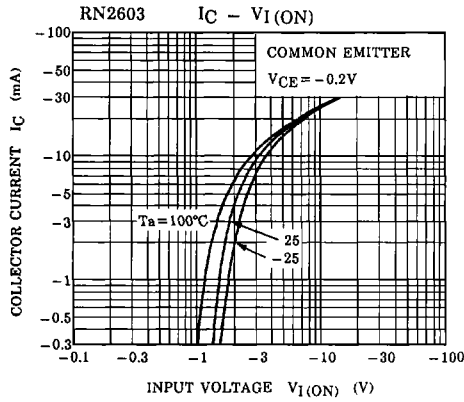
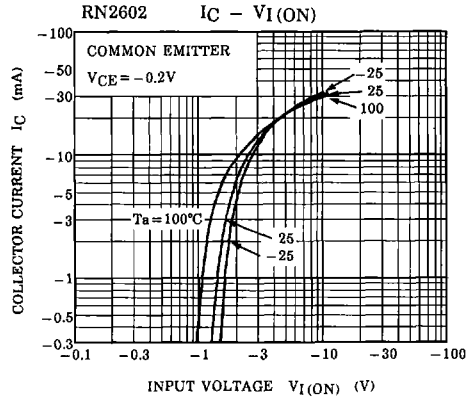
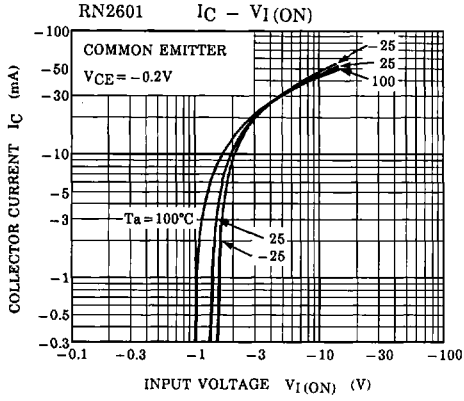
## EQUIVALENT CIRCUIT (TOP VIEW)

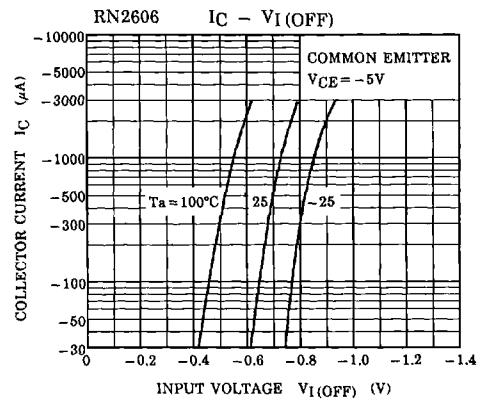
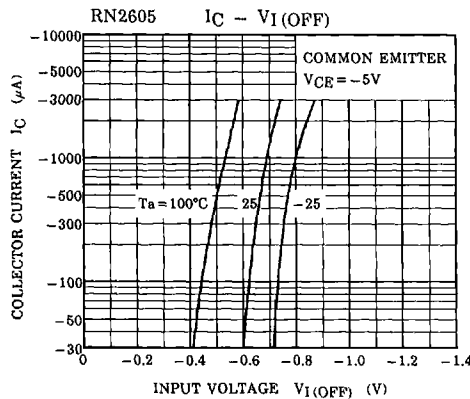
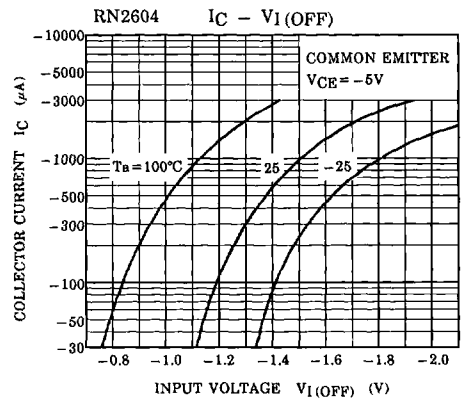
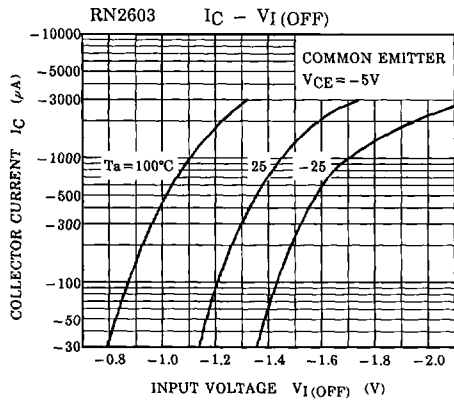
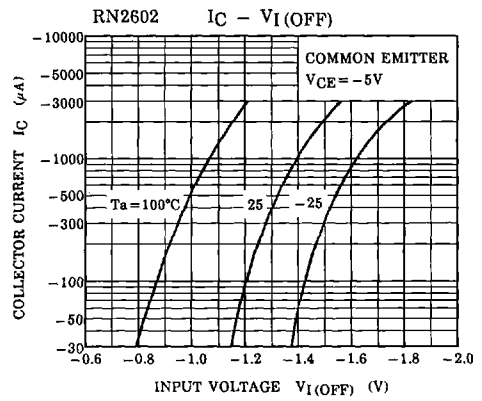
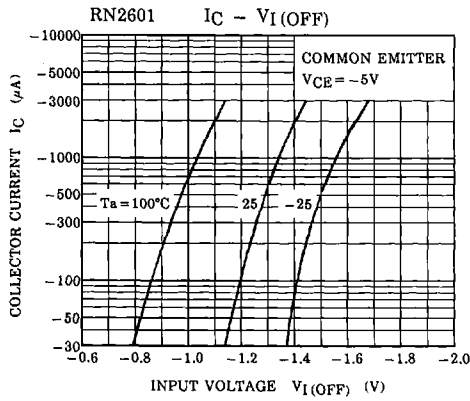


ELECTRICAL CHARACTERISTICS (Ta = 25°C) (Q1, Q2 COMMON)

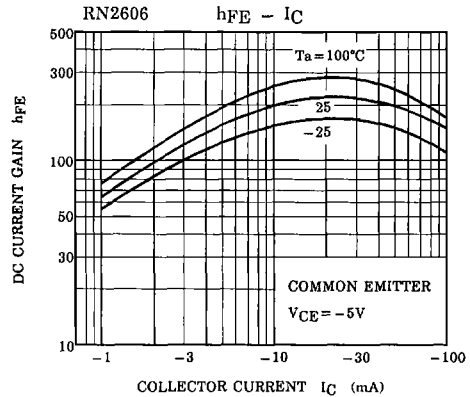
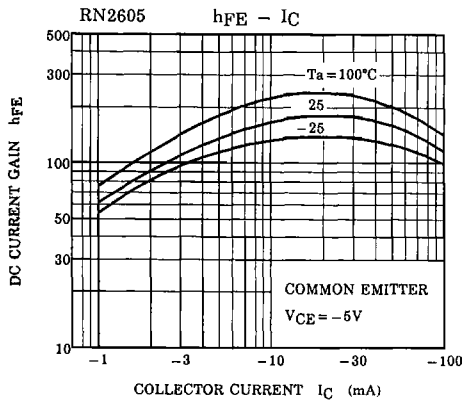
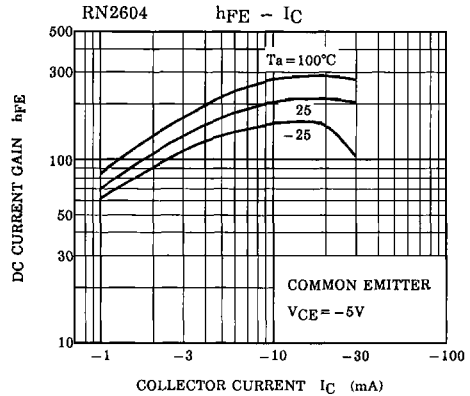
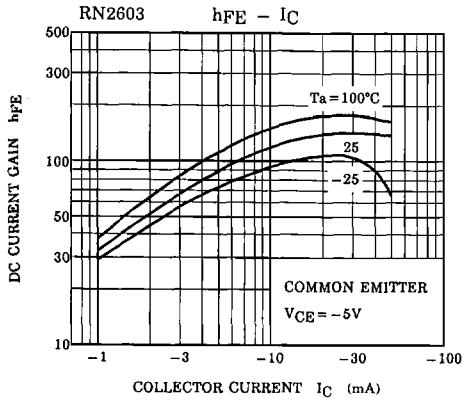
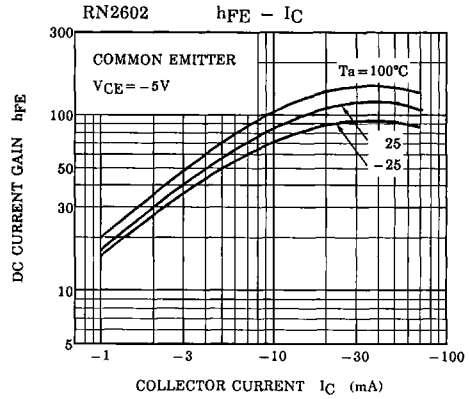
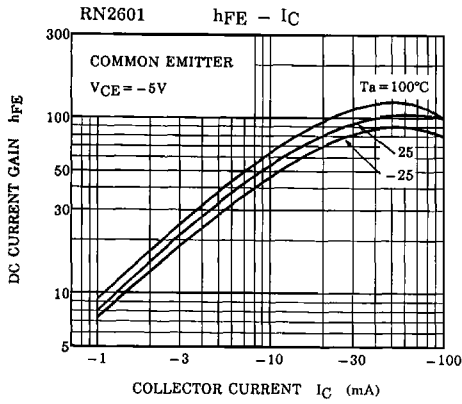
CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	RN2601~2606	ICBO	$V_{CB} = -50V, I_E = 0$	—	—	-100	nA
		ICEO	$V_{CE} = -50V, I_B = 0$	—	—	-500	
Emitter Cut-off Current	RN2601	IEBO	$V_{EB} = -10V, I_C = 0$	-0.82	—	-1.52	mA
	RN2602			-0.38	—	-0.71	
	RN2603			-0.17	—	-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	hFE	$V_{CE} = -5V, I_C = -10mA$	30	—	—	
	RN2602			50	—	—	
	RN2603			70	—	—	
	RN2604			80	—	—	
	RN2605			80	—	—	
	RN2606			80	—	—	
Collector-Emitter Saturation Voltage	RN2601~2606	VCE(sat)	$I_C = -5mA, I_B = -0.25mA$	—	-0.1	-0.3	V
Input Voltage (ON)	RN2601	VI(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	VI(OFF)	$V_{CE} = -5V, I_C = -0.1mA$	-1.0	—	-1.5	V
	RN2605, 2606			-0.5	—	-0.8	
Transition Frequency	RN2601~2606	fT	$V_{CE} = -10V, I_C = -5mA$	—	200	—	MHz
Collector Output Capacitance	RN2601~2606	Cob	$V_{CB} = -10V, I_E = 0$ f=1MHz	—	3	6	pF
Input Resistor	RN2601	R1	—	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	R1/R2	—	0.9	1.0	1.1	
	RN2605			0.0421	0.0468	0.0515	
	RN2606			0.09	0.1	0.11	

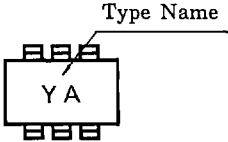
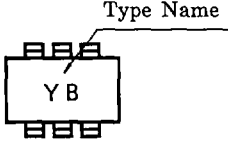
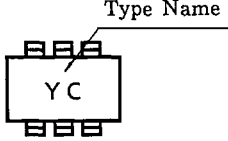
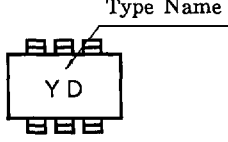
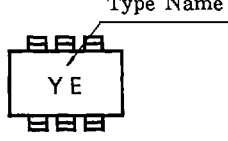
# RN2601~RN2606





# RN2601~RN2606



TYPE NAME	MARKING
RN2601	
RN2602	
RN2603	
RN2604	
RN2605	
RN2606	