

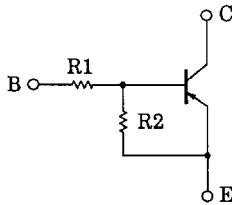
# RN2901~RN2906

SILICON PNP EPITAXIAL TYPE

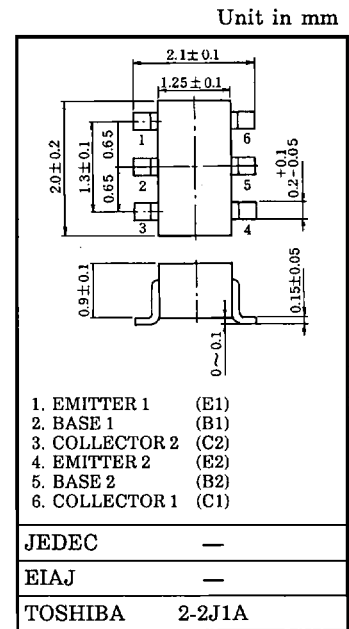
SWITCHING, INVERTER CIRCUIT, INTERFACE CIRCUIT  
AND DRIVER CIRCUIT APPLICATIONS.

- 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 RN1901~RN1906

EQUIVALENT CIRCUIT AND BIAS RESISTOR VALUES

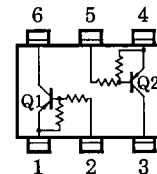


TYPE No.	R1 (kΩ)	R2 (kΩ)
RN2901	4.7	4.7
RN2902	10	10
RN2903	22	22
RN2904	47	47
RN2905	2.2	47
RN2906	4.7	47



Weight : 6.8mg

EQUIVALENT CIRCUIT (TOP VIEW)



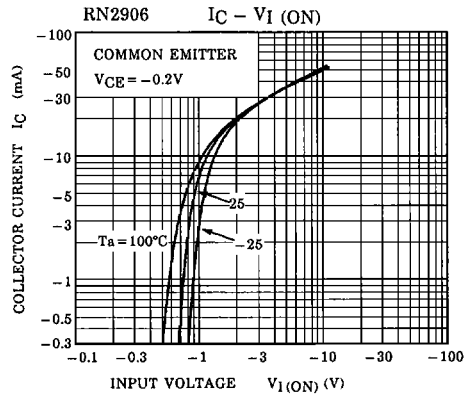
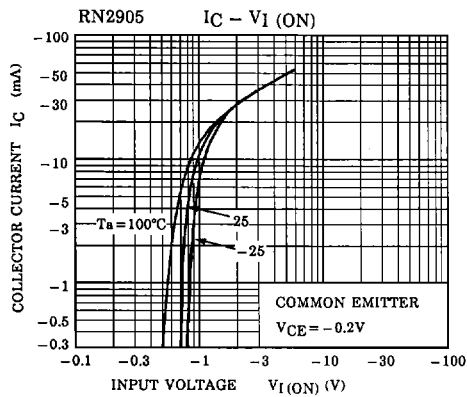
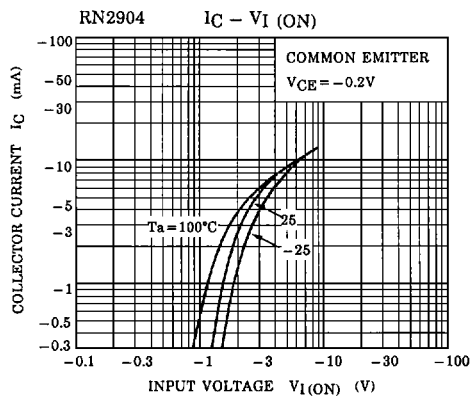
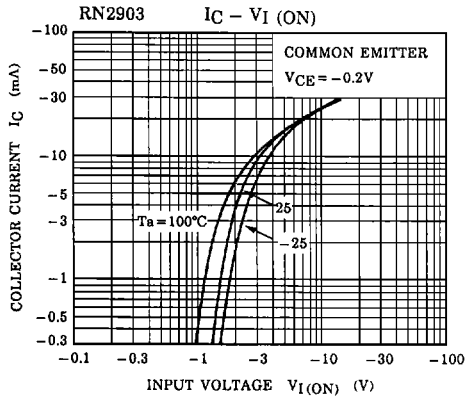
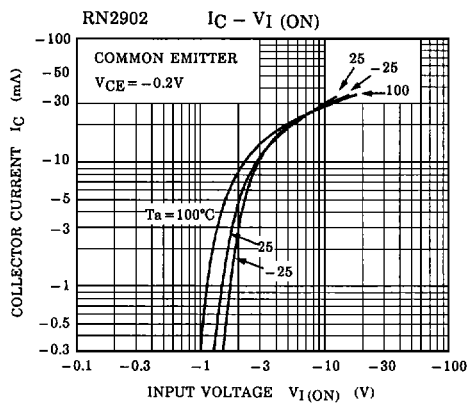
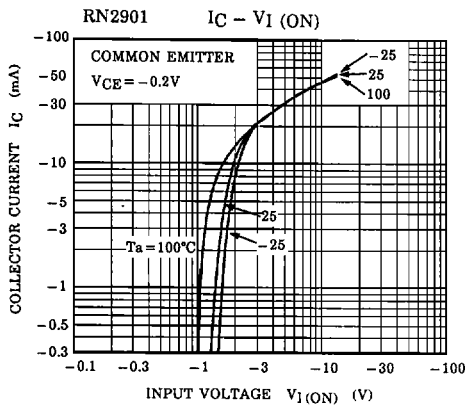
MAXIMUM RATINGS (Ta = 25°C) (Q1, Q2 COMMON)

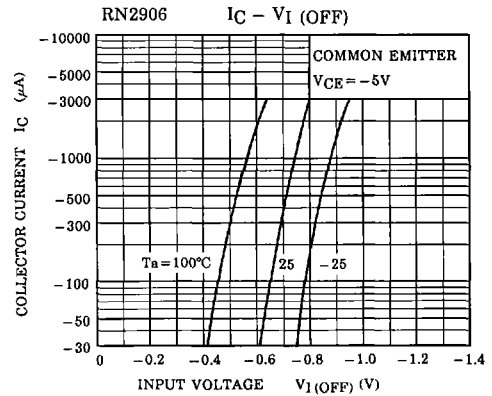
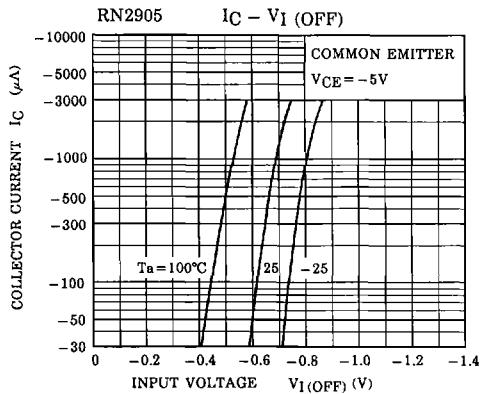
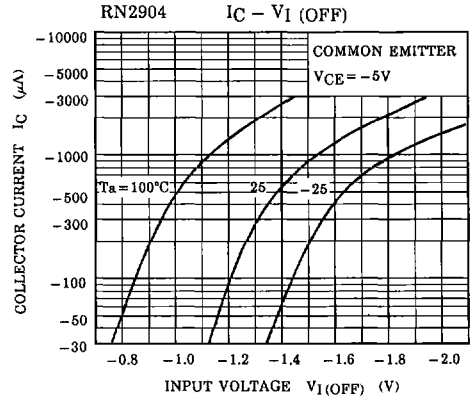
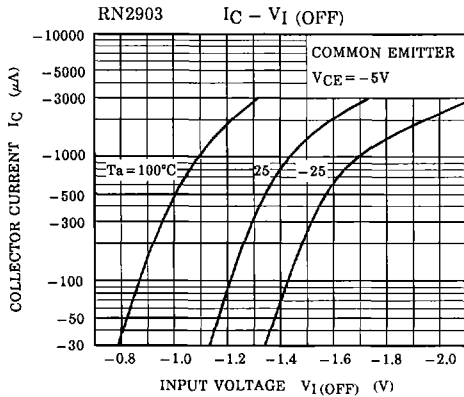
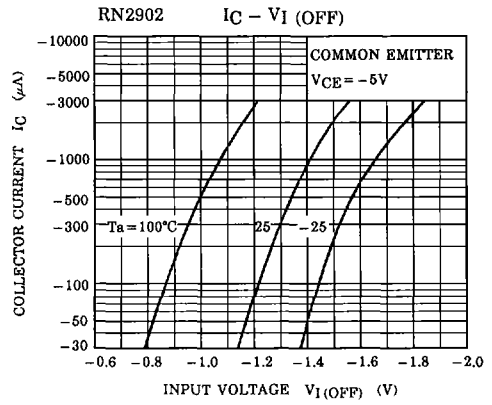
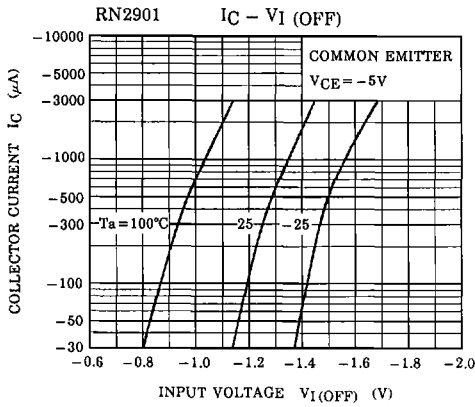
CHARACTERISTIC		SYMBOL	RATING	UNIT
Collector-Base Voltage	RN2901~2906	V <sub>CBO</sub>	-50	V
Collector-Emitter Voltage		V <sub>CEO</sub>	-50	V
Emitter-Base Voltage	RN2901~2904	V <sub>EBO</sub>	-10	V
	RN2905~2906		-5	
Collector Current	RN2901~2906	I <sub>C</sub>	-100	mA
Collector Power Dissipation		PC*	200	mW
Junction Temperature		T <sub>j</sub>	150	°C
Storage Temperature Range		T <sub>stg</sub>	-55~150	°C

\* : Total Rating

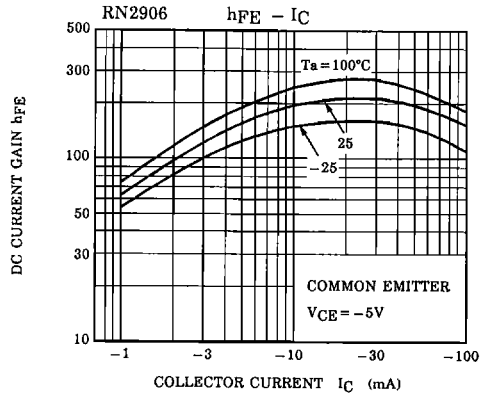
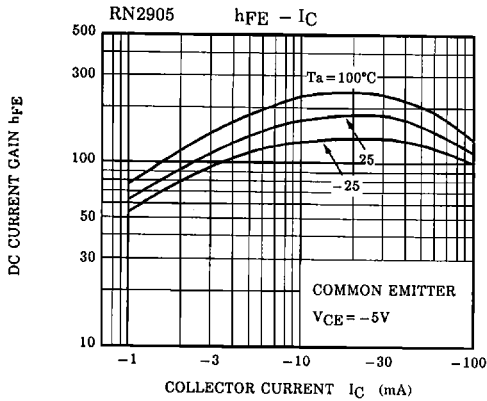
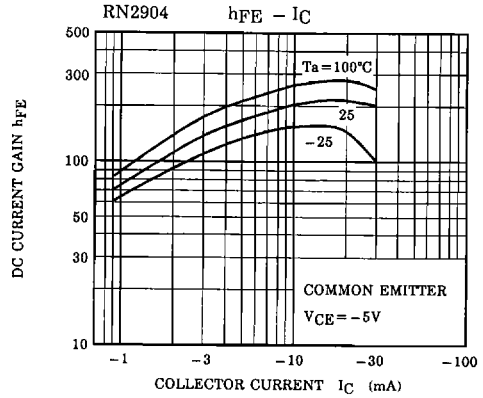
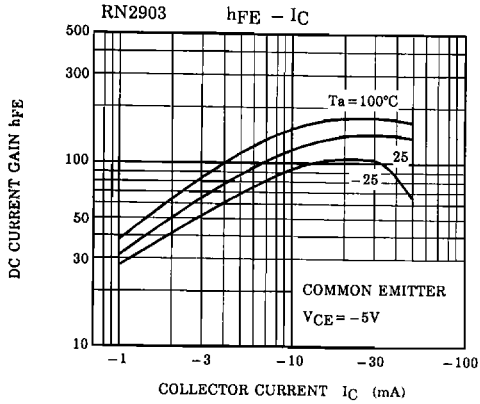
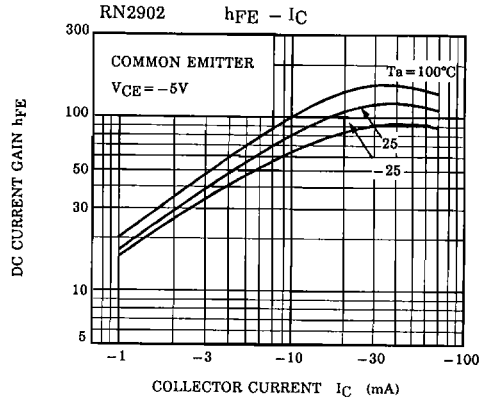
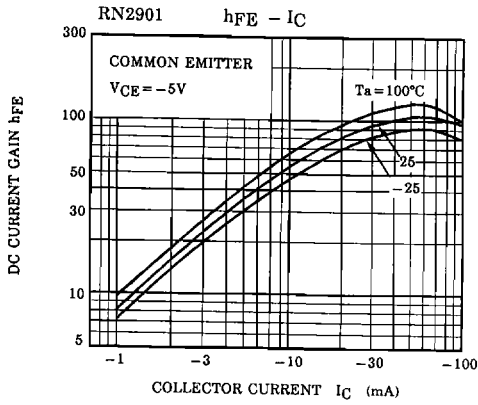
ELECTRICAL CHARACTERISTICS (Ta = 25°C) (Q1, Q2 COMMON)

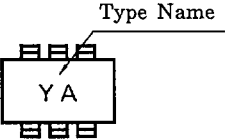
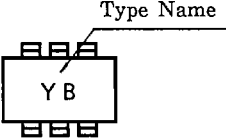
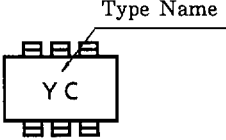
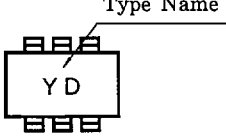
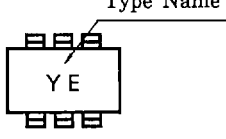
CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	RN2901~2906	ICBO	V <sub>CB</sub> = -50V, I <sub>E</sub> = 0	—	—	-100	nA
		ICEO	V <sub>CE</sub> = -50V, I <sub>B</sub> = 0	—	—	-500	
Emitter Cut-off Current	RN2901	I <sub>EBO</sub>	V <sub>EB</sub> = -10V, I <sub>C</sub> = 0	-0.82	—	-1.52	mA
	RN2902			-0.38	—	-0.71	
	RN2903			-0.17	—	-0.33	
	RN2904		-0.082	—	-0.15		
	RN2905		V <sub>EB</sub> = -5V, I <sub>C</sub> = 0	-0.078	—	-0.145	
	RN2906			-0.074	—	-0.138	
DC Current Gain	RN2901	h <sub>FE</sub>	V <sub>CE</sub> = -5V, I <sub>C</sub> = -10mA	30	—	—	
	RN2902			50	—	—	
	RN2903			70	—	—	
	RN2904			80	—	—	
	RN2905			80	—	—	
	RN2906			80	—	—	
Collector-Emitter Saturation Voltage	RN2901~2906	V <sub>CE(sat)</sub>	I <sub>C</sub> = -5mA I <sub>B</sub> = -0.25mA	—	-0.1	-0.3	V
Input Voltage (ON)	RN2901	V <sub>I(ON)</sub>	V <sub>CE</sub> = -0.2V I <sub>C</sub> = -5mA	-1.1	—	-2.0	V
	RN2902			-1.2	—	-2.4	
	RN2903			-1.3	—	-3.0	
	RN2904			-1.5	—	-5.0	
	RN2905			-0.6	—	-1.1	
	RN2906			-0.7	—	-1.3	
Input Voltage (OFF)	RN2901~2904	V <sub>I(OFF)</sub>	V <sub>CE</sub> = -5V I <sub>C</sub> = -0.1mA	-1.0	—	-1.5	V
	RN2905, 2906			-0.5	—	-0.8	
Transition Frequency	RN2901~2906	f <sub>T</sub>	V <sub>CE</sub> = -10V, I <sub>C</sub> = -5mA	—	200	—	MHz
Collector Output Capacitance	RN2901~2906	C <sub>ob</sub>	V <sub>CB</sub> = -10V, I <sub>E</sub> = 0, f = 1MHz	—	3	6	pF
Input Resistor	RN2901	R <sub>1</sub>		3.29	4.7	6.11	kΩ
	RN2902			7	10	13	
	RN2903			15.4	22	28.6	
	RN2904			32.9	47	61.1	
	RN2905			1.54	2.2	2.86	
	RN2906			3.29	4.7	6.11	
Resistor Ratio	RN2901~2904	R <sub>1</sub> / R <sub>2</sub>		0.9	1.0	1.1	
	RN2905			0.0421	0.0468	0.0515	
	RN2906			0.09	0.1	0.11	





# RN2901~RN2906



TYPE NAME	MARKING
RN2901	
RN2902	
RN2903	
RN2904	
RN2905	
RN2906	