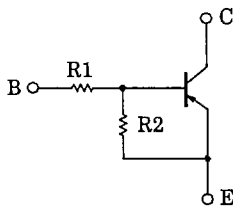


SWITCHING, INVERTER CIRCUIT, INTERFACE CIRCUIT  
AND DRIVER CIRCUIT APPLICATIONS.

- Including Two Devices in USV (Ultra Super Mini Type with 5 leads)
- With Built-in Bias Resistors
- Simplify Circuit Design
- Reduce a Quantity of Parts and Manufacturing Process
- Complementary to RN1701~RN1706

EQUIVALENT CIRCUIT AND BIAS RESISTOR VALUES



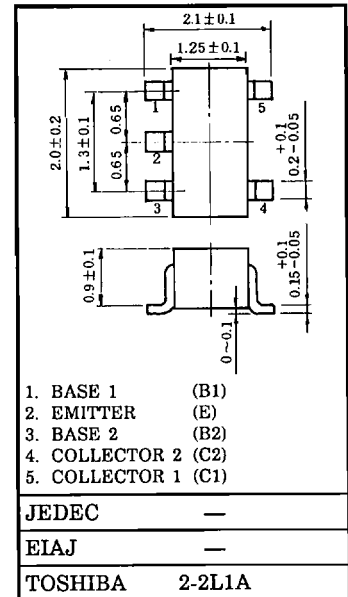
TYPE No.	R1 (kΩ)	R2 (kΩ)
RN2701	4.7	4.7
RN2702	10	10
RN2703	22	22
RN2704	47	47
RN2705	2.2	47
RN2706	4.7	47

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

CHARACTERISTIC		SYMBOL	RATING	UNIT
Collector-Base Voltage	RN2701~2706	V <sub>CBO</sub>	-50	V
Collector-Emitter Voltage		V <sub>CEO</sub>	-50	V
Emitter-Base Voltage	RN2701~2704	V <sub>EBO</sub>	-10	V
	RN2705, 2706		-5	
Collector Current	RN2701~2706	I <sub>C</sub>	-100	mA
Collector Power Dissipation		P <sub>C</sub> *	200	mW
Junction Temperature		T <sub>j</sub>	150	°C
Storage Temperature Range		T <sub>stg</sub>	-55~150	°C

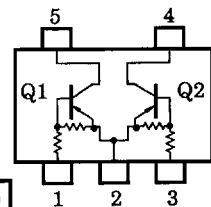
\* : Total Rating

Unit in mm



Weight : 6.2mg

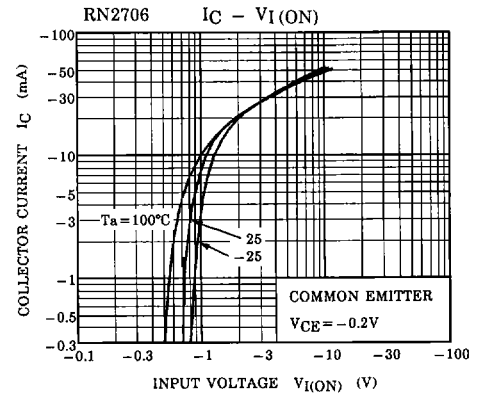
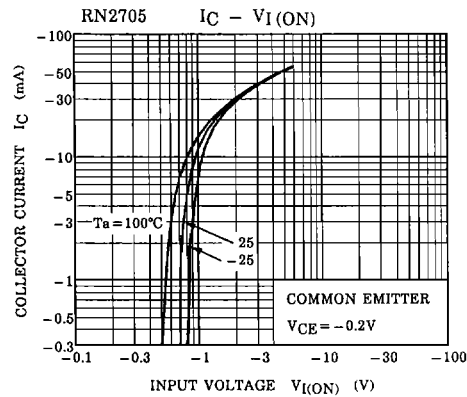
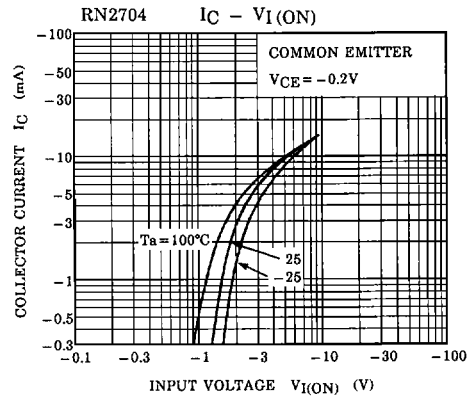
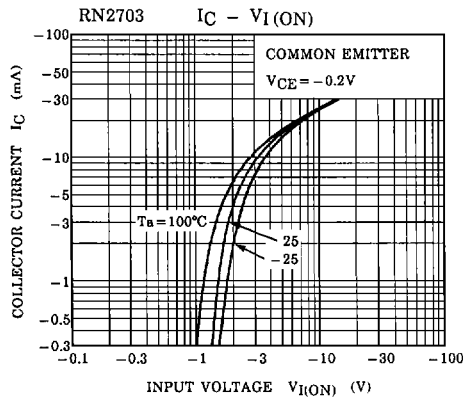
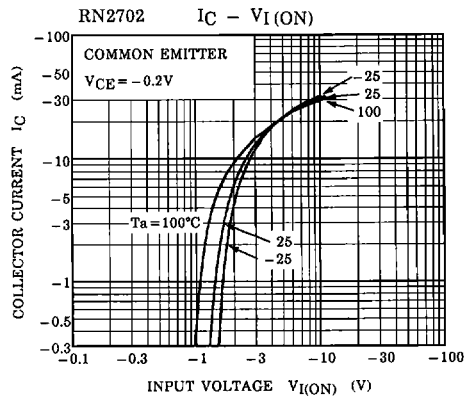
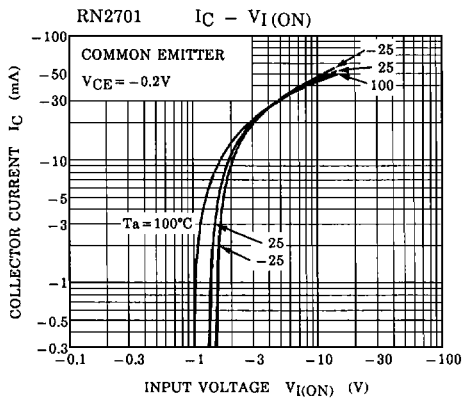
EQUIVALENT CIRCUIT (TOP VIEW)



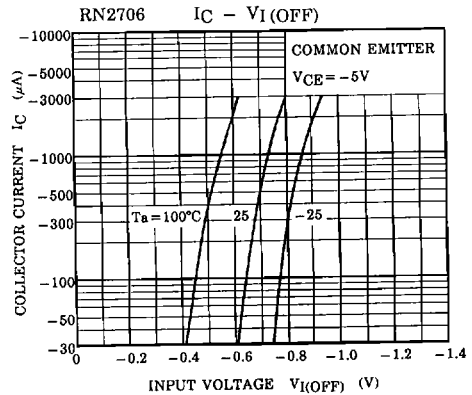
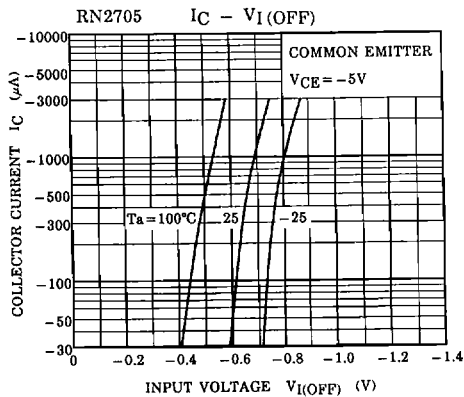
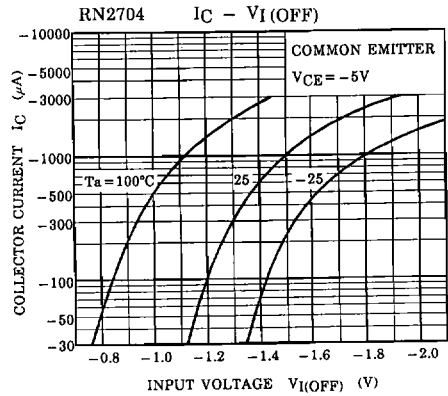
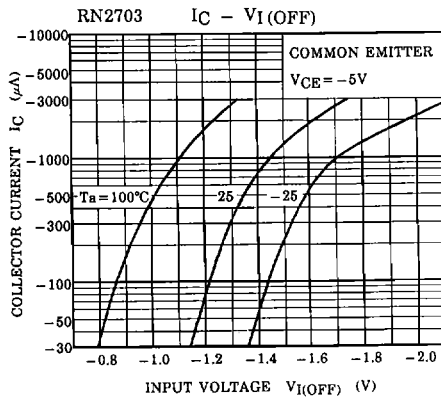
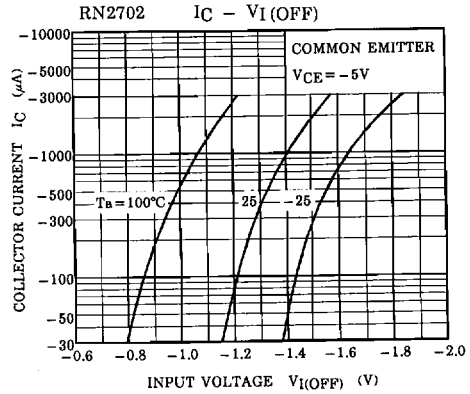
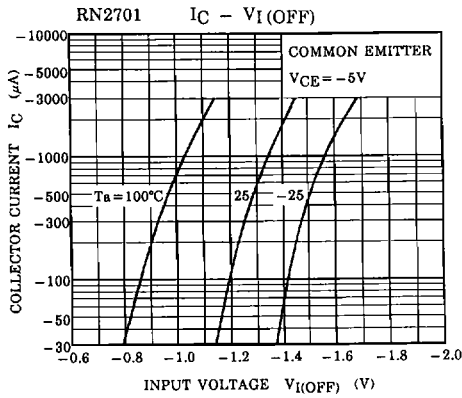
# RN2701~RN2706

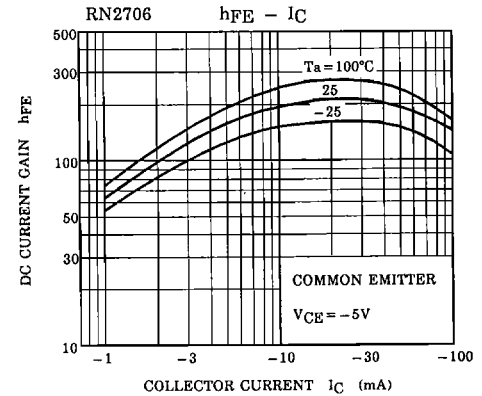
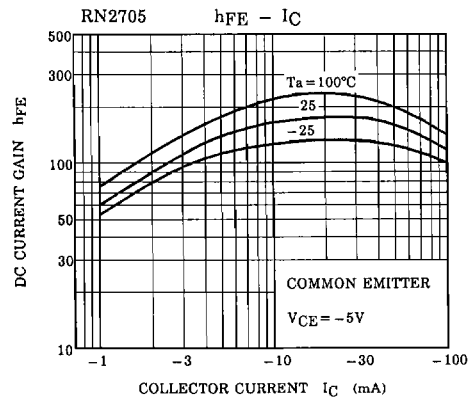
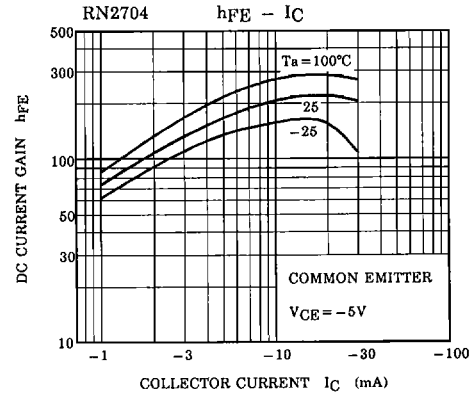
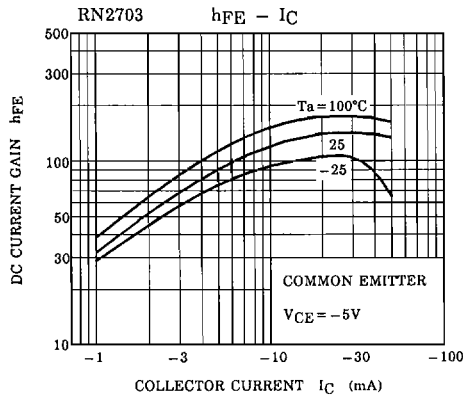
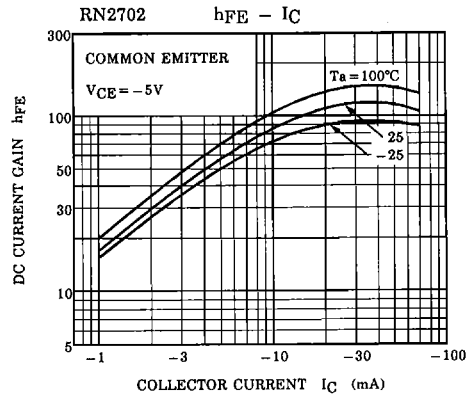
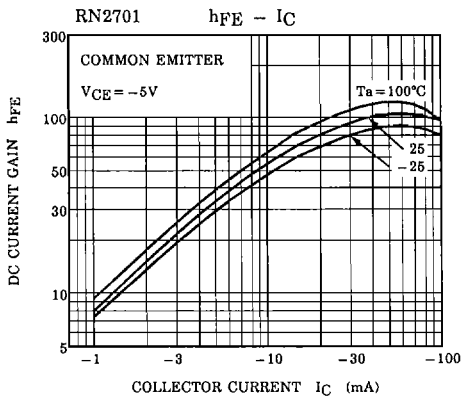
ELECTRICAL CHARACTERISTICS (Ta = 25°C) (Q1, Q2 COMMON)

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	RN2701~2706	$I_{CBO}$	$V_{CB} = -50V, I_E = 0$	—	—	-100	nA
		$I_{CEO}$	$V_{CE} = -50V, I_B = 0$	—	—	-500	
Emitter Cut-off Current	RN2701	$I_{EBO}$	$V_{EB} = -10V, I_C = 0$	-0.82	—	-1.52	mA
	RN2702			-0.38	—	-0.71	
	RN2703			-0.17	—	-0.33	
	RN2704		-0.082	—	-0.15		
	RN2705		$V_{EB} = -5V, I_C = 0$	-0.078	—	-0.145	
	RN2706			-0.074	—	-0.138	
DC Current Gain	RN2701	$h_{FE}$	$V_{CE} = -5V, I_C = -10mA$	30	—	—	
	RN2702			50	—	—	
	RN2703			70	—	—	
	RN2704			80	—	—	
	RN2705			80	—	—	
	RN2706			80	—	—	
Collector-Emitter Saturation Voltage	RN2701~2706	$V_{CE(sat)}$	$I_C = -5mA, I_B = -0.25mA$	—	-0.1	-0.3	V
Input Voltage (ON)	RN2701	$V_{I(ON)}$	$V_{CE} = -0.2V, I_C = -5mA$	-1.1	—	-2.0	V
	RN2702			-1.2	—	-2.4	
	RN2703			-1.3	—	-3.0	
	RN2704			-1.5	—	-5.0	
	RN2705			-0.6	—	-1.1	
	RN2706			-0.7	—	-1.3	
Input Voltage (OFF)	RN2701~2704 RN2705, 2706	$V_{I(OFF)}$	$V_{CE} = -5V, I_C = -0.1mA$	-1.0	—	-1.5	V
Transition Frequency	RN2701~2706	$f_T$	$V_{CE} = -10V, I_C = -5mA$	—	200	—	MHz
Collector Output Capacitance	RN2701~2706	$C_{ob}$	$V_{CB} = -10V, I_E = 0, f = 1MHz$	—	3	6	pF
Input Resistor	RN2701	R1		3.29	4.7	6.11	k $\Omega$
	RN2702			7	10	13	
	RN2703			15.4	22	28.6	
	RN2704			32.9	47	61.1	
	RN2705			1.54	2.2	2.86	
	RN2706			3.29	4.7	6.11	
Resistor Ratio	RN2701~2704	R1 / R2		0.9	1.0	1.1	
	RN2705			0.0421	0.0468	0.0515	
	RN2706			0.09	0.1	0.11	

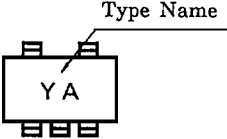
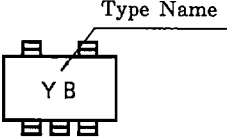
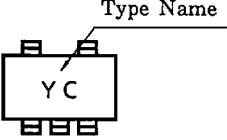
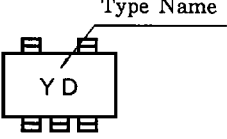
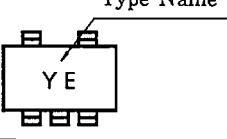


# RN2701~RN2706





# RN2701~RN2706

TYPE NAME	MARKING
RN2701	
RN2702	
RN2703	
RN2704	
RN2705	
RN2706	