

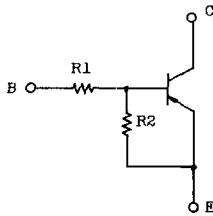
RN2201, 2202, 2203 RN2204, 2205, 2206

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

FEATURES:

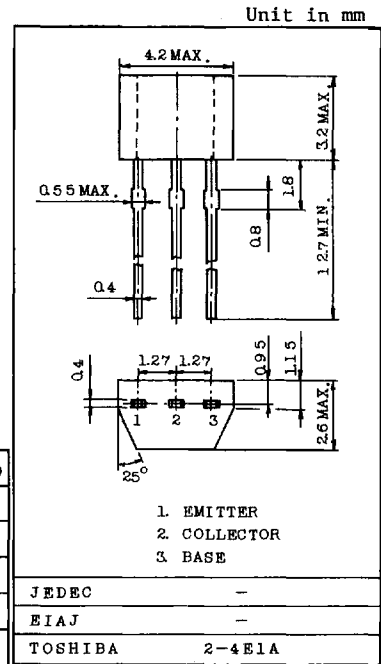
- With Built-in Bias Resistors
- Simplify Circuit Design
- Reduce a Quantity of Parts and Manufacturing Process.
- Complementary to RN1201 ~ 1206

EQUIVALENT CIRCUIT



BIAS RESISTOR VALUES

TYPE No.	R1 (kΩ)	R2 (kΩ)
RN2201	4.7	4.7
RN2202	10	10
RN2203	22	22
RN2204	47	47
RN2205	2.2	47
RN2206	4.7	47



Weight : 0.13g

MAXIMUM RATINGS (Ta=25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	RN2201 ~ 2206	V _{CB0}	-50 V
Collector-Emitter Voltage		V _{CE0}	-50 V
Emitter-Base Voltage	RN2201 ~ 2204	V _{EBO}	-10 V
	RN2205, 2206		-5 V
Collector-Current	RN2201 ~ 2206	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

ELECTRICAL CHARACTERISTICS (Ta=25°C)

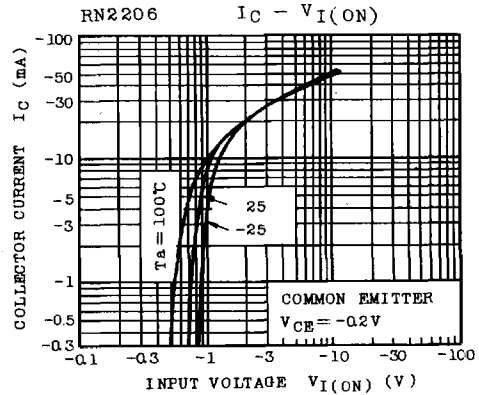
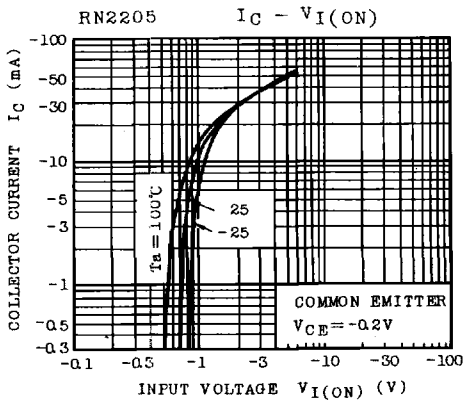
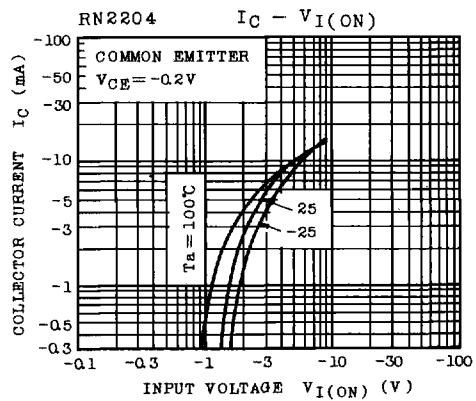
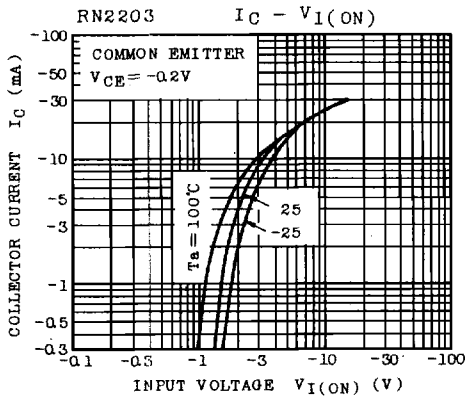
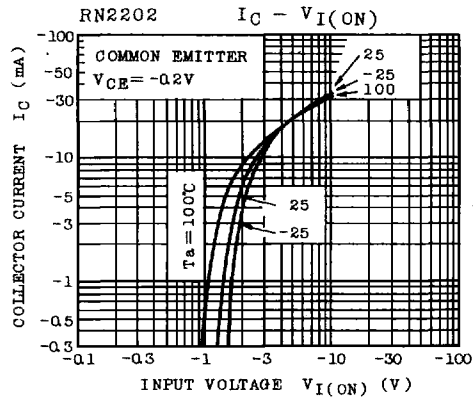
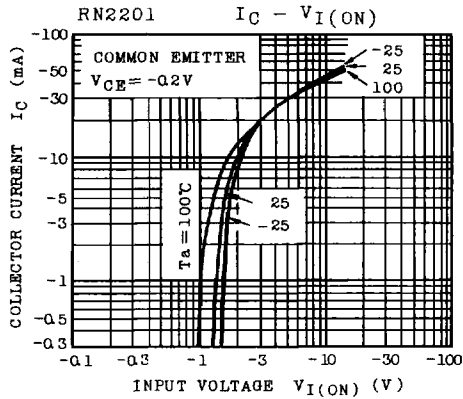
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	RN2201 ~ 2206	I _{CB0}	V _{CB} =-50V, I _E =0	-	-	-100 nA
		I _{CE0}	V _{CE} =-50V, I _B =0	-	-	-500 nA

RN2201, 2202, 2203
RN2204, 2205, 2206

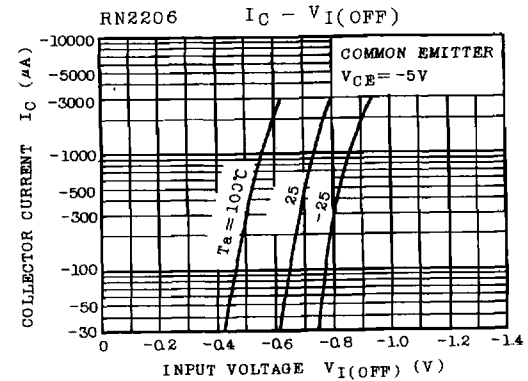
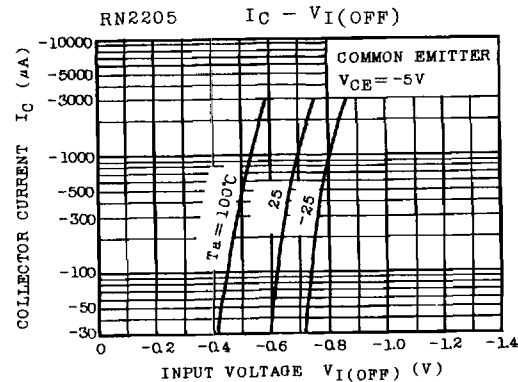
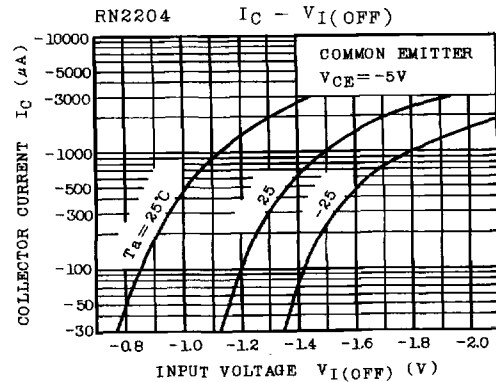
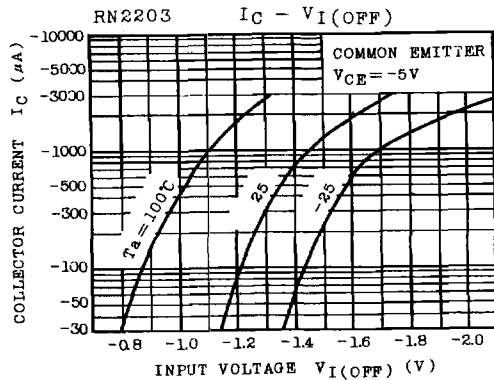
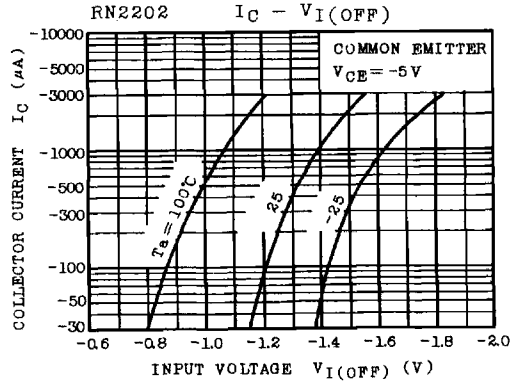
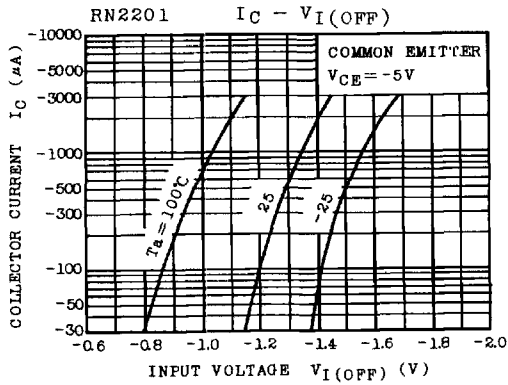
ELECTRICAL CHARACTERISTICS (Ta=25°C)

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Emitter Cut-off Current	RN2201	I _{EB0}	V _{EB} =-10V, I _C =0	-0.82	-	-1.52	mA
	RN2202			-0.38	-	-0.71	
	RN2203			-0.17	-	-0.33	
	RN2204		V _{EB} =-5V, I _C =0	-0.082	-	-0.15	
	RN2205			-0.078	-	-0.145	
	RN2206			-0.074	-	-0.138	
DC Current Gain	RN2201	h _{FE}	V _{CE} =-5V I _C =-10mA	30	-	-	-
	RN2202			50	-	-	
	RN2203			70	-	-	
	RN2204			80	-	-	
	RN2205			80	-	-	
	RN2206			80	-	-	
Collector-Emitter Saturation Voltage	RN2201 ~ 2206	V _{CE(sat)}	I _C =-5mA I _B =-0.25mA	-	-0.1	-0.3	V
Input Voltage (ON)	RN2201	V _I (ON)	V _{CE} =-0.2V I _C =-5mA	-1.1	-	-2.0	V
	RN2202			-1.2	-	-2.4	
	RN2203			-1.3	-	-3.0	
	RN2204			-1.5	-	-5.0	
	RN2205			-0.6	-	-1.1	
	RN2206			-0.7	-	-1.3	
Input Voltage (OFF)	RN2201 ~ 2204	V _I (OFF)	V _{CE} =-5V I _C =-0.1mA	-1.0	-	-1.5	V
	RN2205 ~ 2206			-0.5	-	-0.8	
Transition Frequency	RN2201 ~ 2206	f _T	V _{CE} =-10V, I _C =-5mA	-	200	-	MHz
Collector Output Capacitance	RN2201 ~ 2206	C _{ob}	V _{CB} =-10V, I _E =0 f=1MHz	-	3	6	pF
Input Resistor	RN2201	R ₁		3.29	4.7	6.11	kΩ
	RN2202			7	10	13	
	RN2203			15.4	22	28.6	
	RN2204			32.9	47	61.1	
	RN2205			1.54	2.2	2.86	
	RN2206			3.29	4.7	6.11	
Resistor Ratio	RN2201 ~ 2204	R ₁ /R ₂		0.9	1.0	1.1	-
	RN2205			0.0421	0.0468	0.0515	
	RN2206			0.09	0.1	0.11	

RN2201, 2202, 2203
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