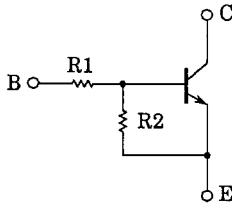


RN1901~RN1906

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

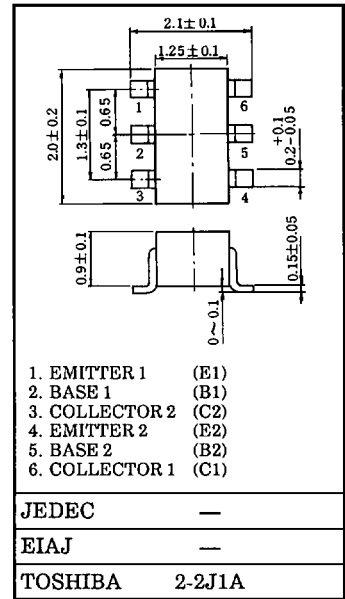
- Including Two Devices in US6 (Ultra Super Mini Type with 6 leads)
- With Built-in Bias Resistors
- Simplify Circuit Design
- Reduce a Quantity of Parts and Manufacturing Process
- Complementary to RN2901~RN2906

EQUIVALENT CIRCUIT AND BIAS RESISTOR VALUES



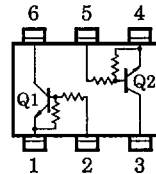
TYPE No.	R1 (kΩ)	R2 (kΩ)
RN1901	4.7	4.7
RN1902	10	10
RN1903	22	22
RN1904	47	47
RN1905	2.2	47
RN1906	4.7	47

Unit in mm



Weight : 6.8mg

EQUIVALENT CIRCUIT (TOP VIEW)



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

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	RN1901~1906	V _{CB0}	50 V
Collector-Emitter Voltage		V _{CEO}	50 V
Emitter-Base Voltage	RN1901~1904	V _{EBO}	10 V
	RN1905, 1906		5 V
Collector Current	RN1901~1906	I _C	100 mA
Collector Power Dissipation		P _C *	200 mW
Junction Temperature		T _j	150 °C
Storage Temperature Range		T _{stg}	-55~150 °C

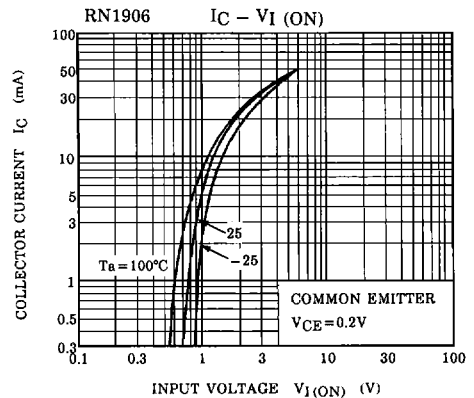
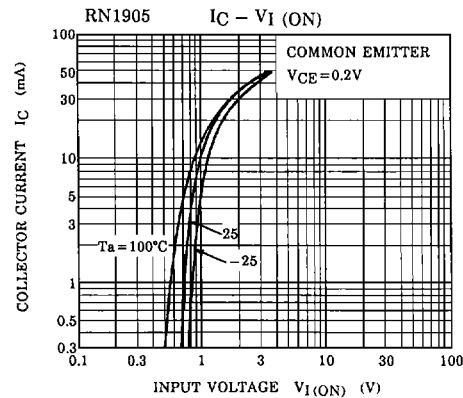
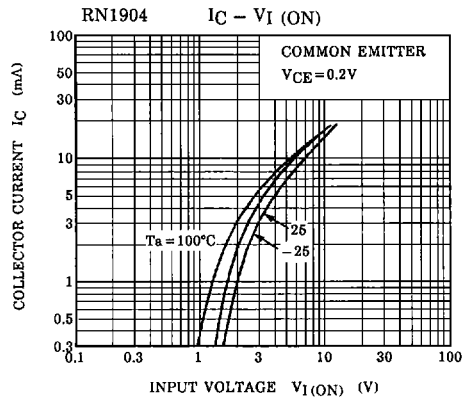
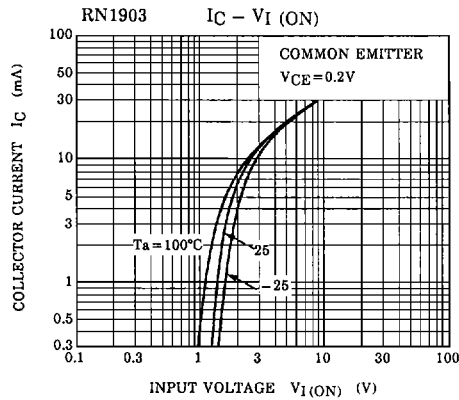
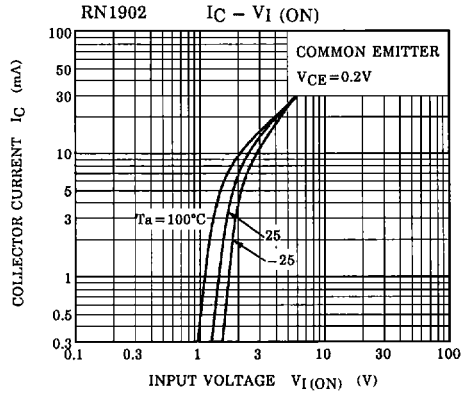
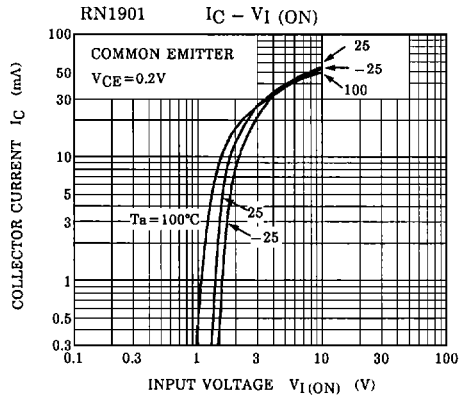
* : Total Rating

RN1901~RN1906

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

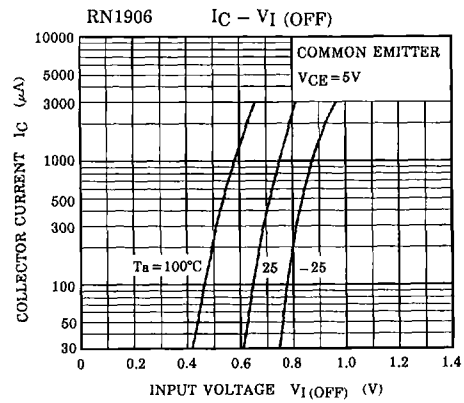
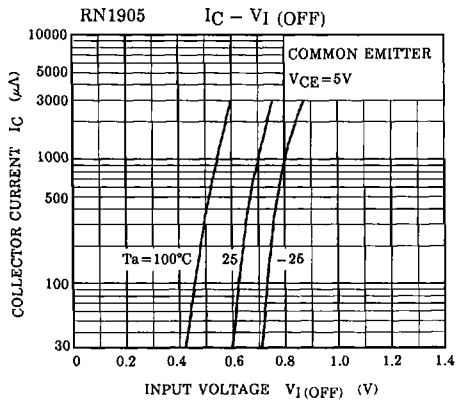
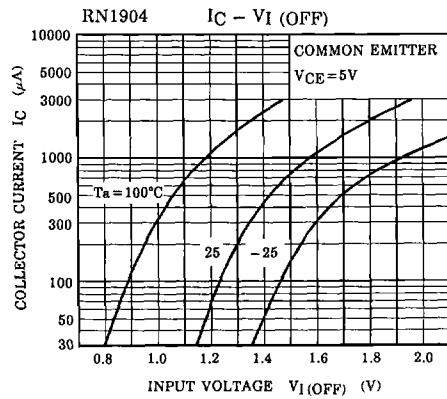
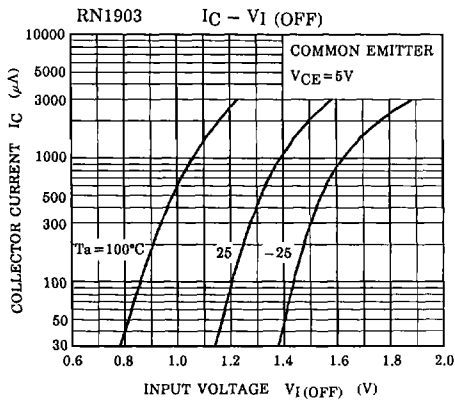
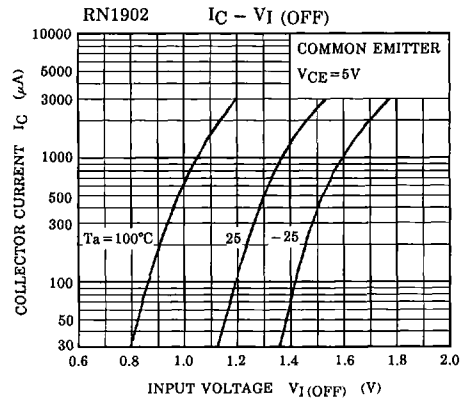
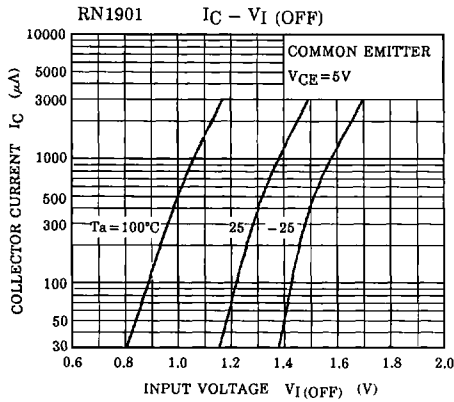
CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	RN1901~1906	ICBO	V _{CB} =50V, I _E =0	—	—	100	nA
		ICEO	V _{CE} =50V, I _B =0	—	—	500	
Emitter Cut-off Current	RN1901	I _{EBO}	V _{EB} =10V, I _C =0	0.82	—	1.52	mA
	RN1902			0.38	—	0.71	
	RN1903			0.17	—	0.33	
	RN1904		0.082	—	0.15		
	RN1905		V _{EB} =5V, I _C =0	0.078	—	0.145	
	RN1906			0.074	—	0.138	
DC Current Gain	RN1901	h _{FE}	V _{CE} =5V, I _C =10mA	30	—	—	
	RN1902			50	—	—	
	RN1903			70	—	—	
	RN1904			80	—	—	
	RN1905			80	—	—	
	RN1906			80	—	—	
Collector-Emitter Saturation Voltage	RN1901~1906	V _{CE(sat)}	I _C =5mA I _B =0.25mA	—	0.1	0.3	V
Input Voltage (ON)	RN1901	V _{I(ON)}	V _{CE} =0.2V I _C =5mA	1.1	—	2.0	V
	RN1902			1.2	—	2.4	
	RN1903			1.3	—	3.0	
	RN1904			1.5	—	5.0	
	RN1905			0.6	—	1.1	
	RN1906			0.7	—	1.3	
Input Voltage (OFF)	RN1901~1904	V _{I(OFF)}	V _{CE} =5V I _C =0.1mA	1.0	—	1.5	V
	RN1905, 1906			0.5	—	0.8	
Transition Frequency	RN1901~1906	f _T	V _{CE} =10V, I _C =5mA	—	250	—	MHz
Collector Output Capacitance	RN1901~1906	C _{ob}	V _{CB} =10V, I _E =0, f=1MHz	—	3	6	pF
Input Resistor	RN1901	R ₁		3.29	4.7	6.11	kΩ
	RN1902			7	10	13	
	RN1903			15.4	22	28.6	
	RN1904			32.9	47	61.1	
	RN1905			1.54	2.2	2.86	
	RN1906			3.29	4.7	6.11	
Resistor Ratio	RN1901~1904	R ₁ /R ₂		0.9	1.0	1.1	
	RN1905			0.0421	0.0468	0.0515	
	RN1906			0.09	0.1	0.11	

(Q1, Q2 COMMON)

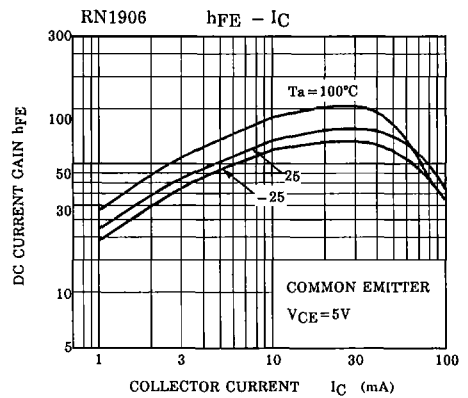
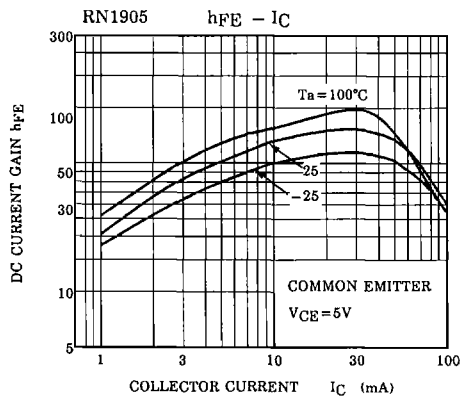
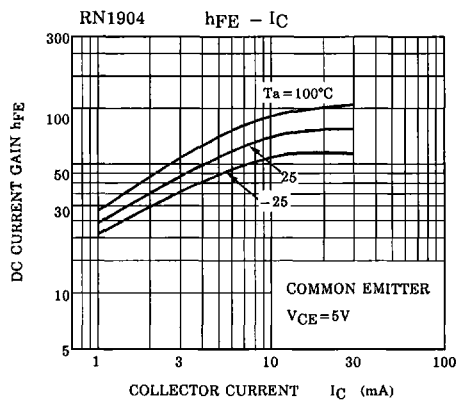
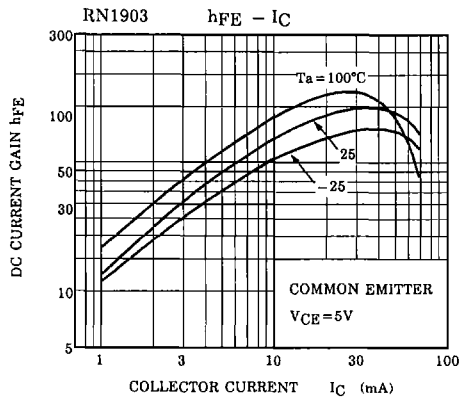
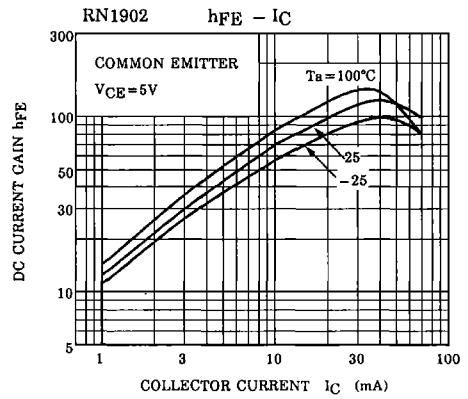
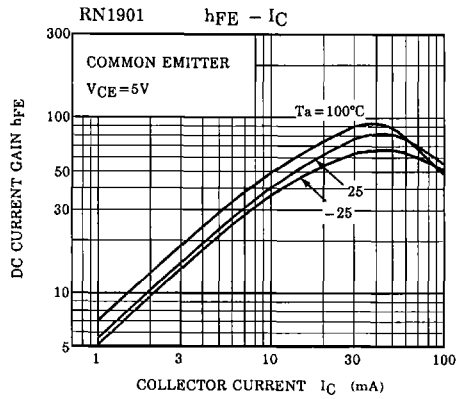


RN1901~RN1906

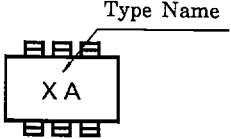
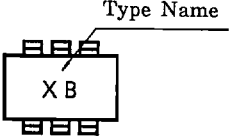
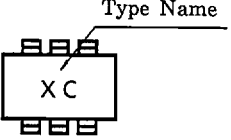
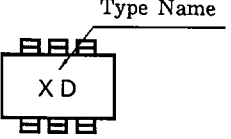
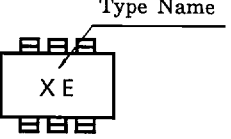
(Q1, Q2 COMMON)



(Q1, Q2 COMMON)



RN1901~RN1906

TYPE NAME	MARKING
RN1901	
RN1902	
RN1903	
RN1904	
RN1905	
RN1906	