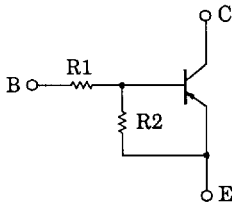


RN2961~RN2966

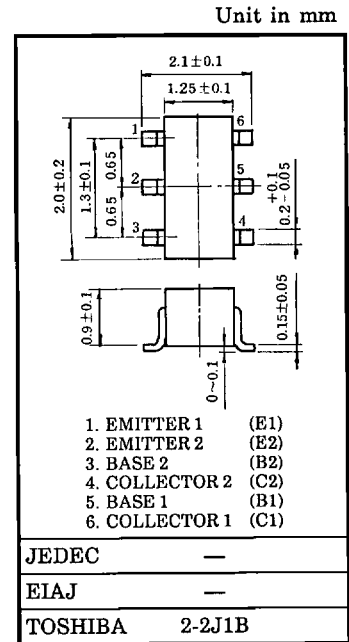
SWITCHING, INVERTER CIRCUIT, INTERFACE CIRCUIT
AND DRIVER CIRCUIT APPLICATIONS.

- 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 RN1961~RN1966

EQUIVALENT CIRCUIT AND BIAS RESISTOR VALUES



TYPE No.	R1 (kΩ)	R2 (kΩ)
RN2961	4.7	4.7
RN2962	10	10
RN2963	22	22
RN2964	47	47
RN2965	2.2	47
RN2966	4.7	47



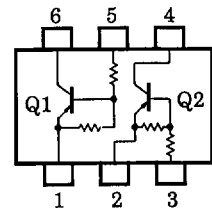
Weight : 6.8mg

MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC		SYMBOL	RATING	UNIT
Collector-Base Voltage	RN2961~2966	V _{CBO}	-50	V
Collector-Emitter Voltage		V _{CEO}	-50	V
Emitter-Base Voltage	RN2961~2964	V _{EBO}	-10	V
	RN2965, 2966		-5	
Collector Current	RN2961~2966	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

EQUIVALENT CIRCUIT
(TOP VIEW)

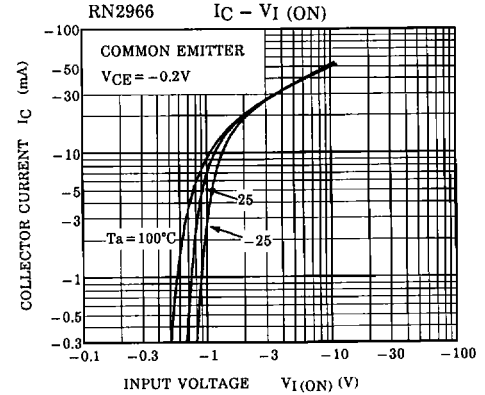
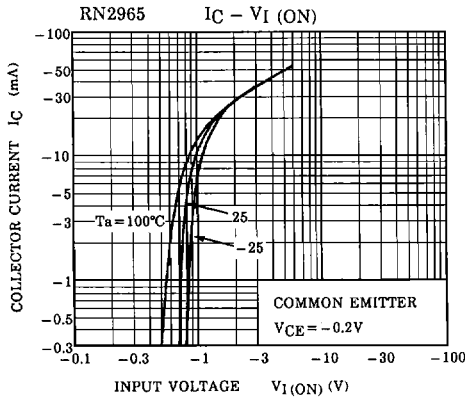
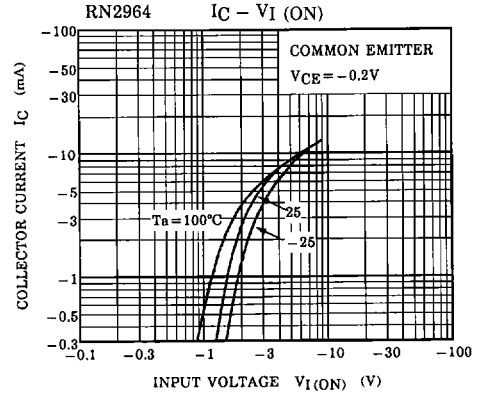
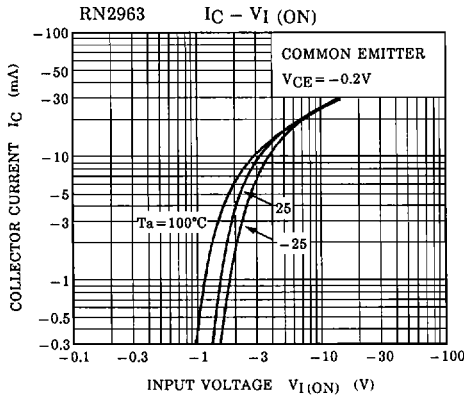
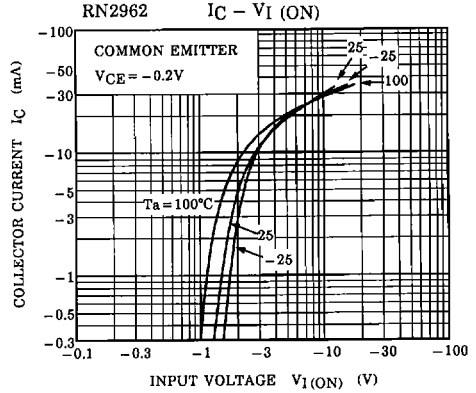
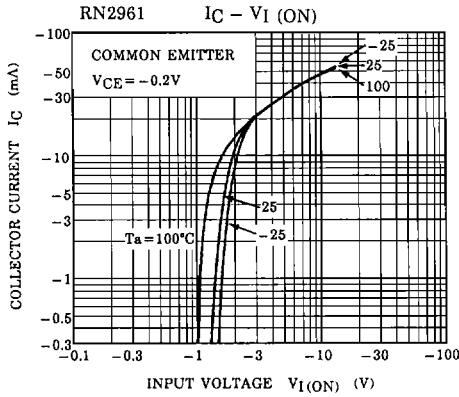


RN2961~RN2966

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

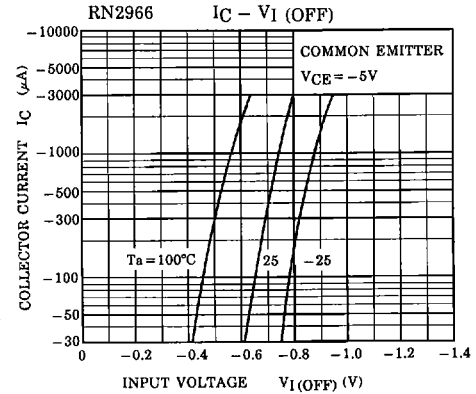
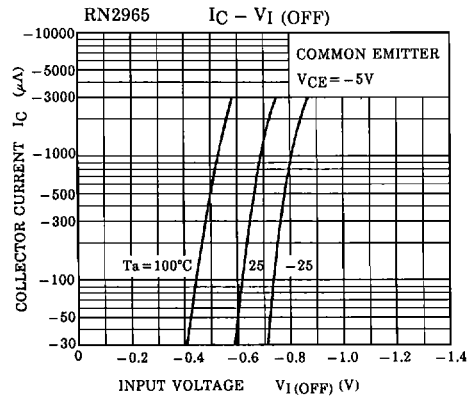
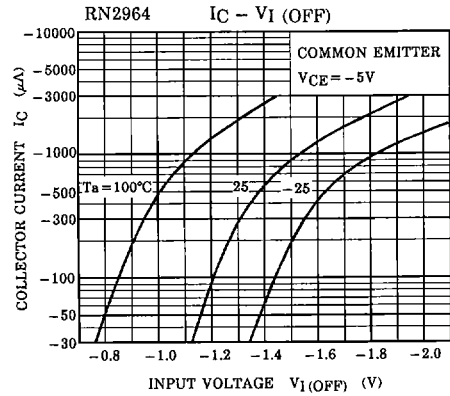
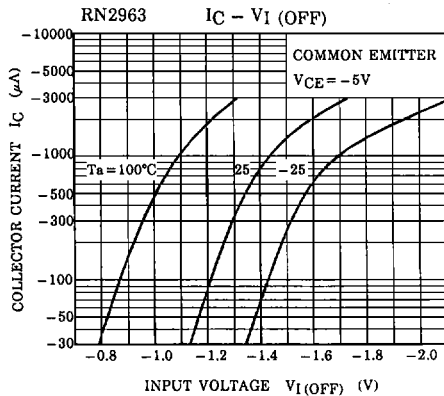
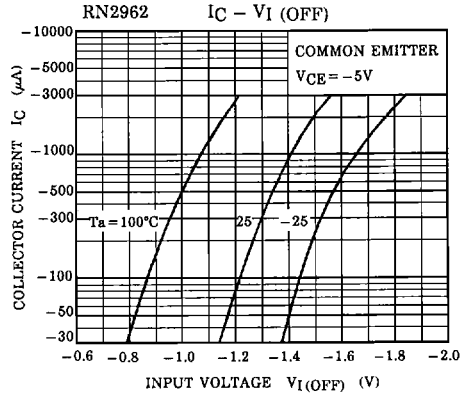
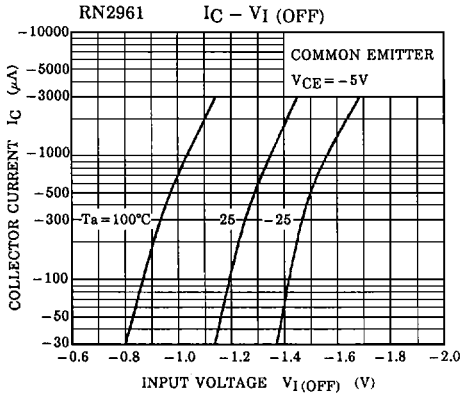
CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	RN2961~2966	ICBO	V _{CB} = -50V, I _E = 0	—	—	-100	nA
		ICEO	V _{CE} = -50V, I _B = 0	—	—	-500	
Emitter Cut-off Current	RN2961	I _{EBO}	V _{EB} = -10V, I _C = 0	-0.82	—	-1.52	mA
	RN2962			-0.38	—	-0.71	
	RN2963			-0.17	—	-0.33	
	RN2964		-0.082	—	-0.15		
	RN2965		V _{EB} = -5V, I _C = 0	-0.078	—	-0.145	
	RN2966			-0.074	—	-0.138	
DC Current Gain	RN2961	h _{FE}	V _{CE} = -5V, I _C = -10mA	30	—	—	
	RN2962			50	—	—	
	RN2963			70	—	—	
	RN2964			80	—	—	
	RN2965			80	—	—	
	RN2966			80	—	—	
Collector-Emitter Saturation Voltage	RN2961~2966	V _{CE(sat)}	I _C = -5mA I _B = -0.25mA	—	-0.1	-0.3	V
Input Voltage (ON)	RN2961	V _{I(ON)}	V _{CE} = -0.2V I _C = -5mA	-1.1	—	-2.0	V
	RN2962			-1.2	—	-2.4	
	RN2963			-1.3	—	-3.0	
	RN2964			-1.5	—	-5.0	
	RN2965			-0.6	—	-1.1	
	RN2966			-0.7	—	-1.3	
Input Voltage (OFF)	RN2961~2964	V _{I(OFF)}	V _{CE} = -5V I _C = -0.1mA	-1.0	—	-1.5	V
	RN2965, 2966			-0.5	—	-0.8	
Transition Frequency	RN2961~2966	f _T	V _{CE} = -10V, I _C = -5mA	—	200	—	MHz
Collector Output Capacitance	RN2961~2966	C _{ob}	V _{CB} = -10V, I _E = 0, f = 1MHz	—	3	6	pF
Input Resistor	RN2961	R ₁		3.29	4.7	6.11	kΩ
	RN2962			7	10	13	
	RN2963			15.4	22	28.6	
	RN2964			32.9	47	61.1	
	RN2965			1.54	2.2	2.86	
	RN2966			3.29	4.7	6.11	
Resistor Ratio	RN2961~2964	R ₁ / R ₂		0.9	1.0	1.1	
	RN2965			0.0421	0.0468	0.0515	
	RN2966			0.09	0.1	0.11	

(Q1, Q2 COMMON)

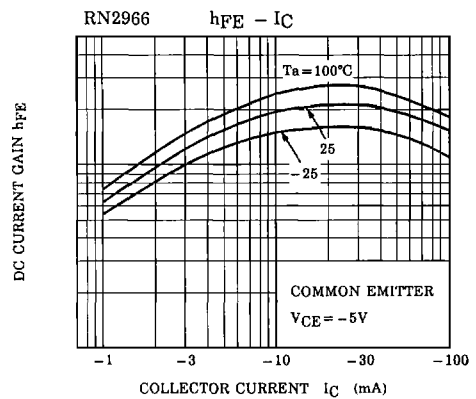
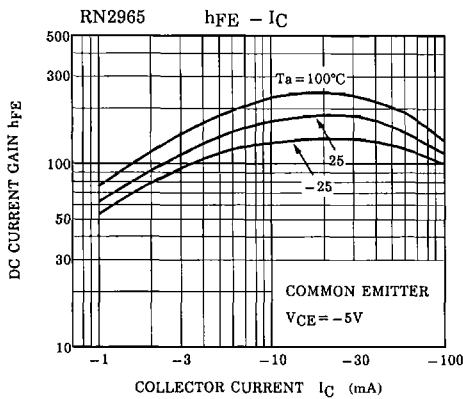
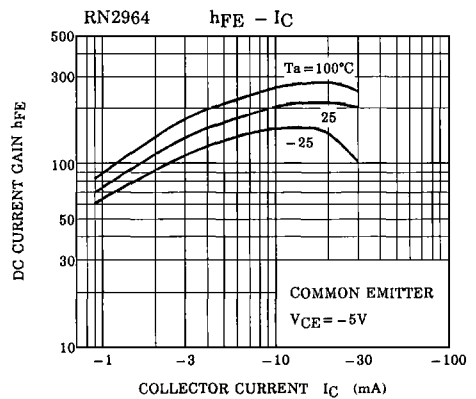
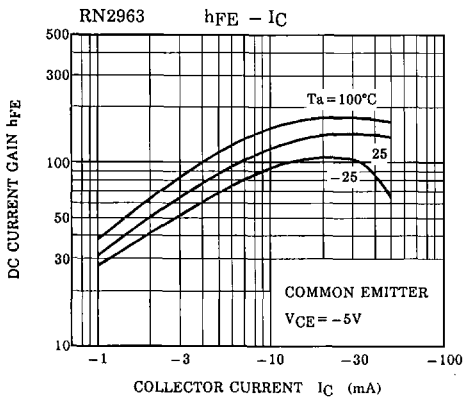
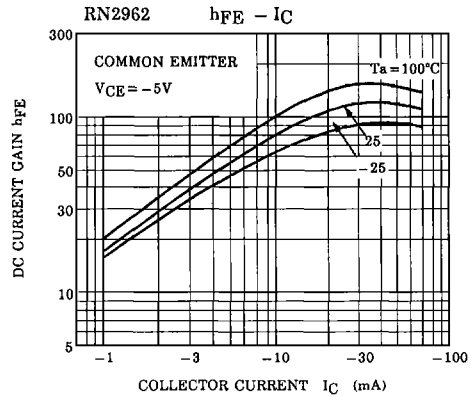
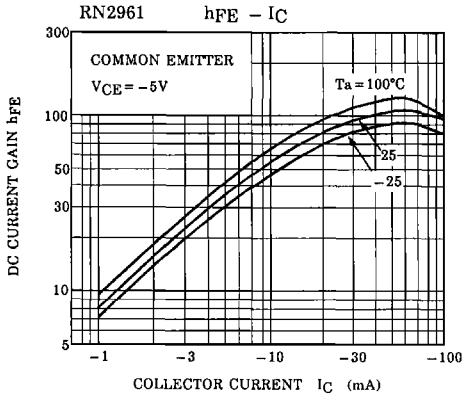


RN2961~RN2966

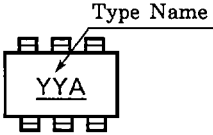
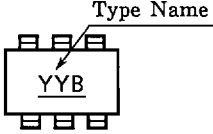
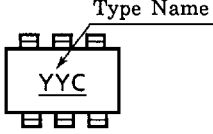
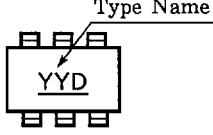
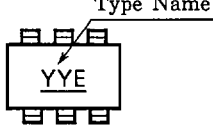
(Q1, Q2 COMMON)



(Q1, Q2 COMMON)



RN2961~RN2966

TYPE NAME	MARKING
RN2961	
RN2962	
RN2963	
RN2964	
RN2965	
RN2966	