

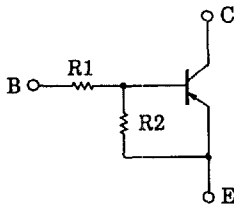
RN2967, 2968, 2969

(RN2967)

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 RN1967~RN1969

EQUIVALENT CIRCUIT AND BIAS RESISTOR VALUES



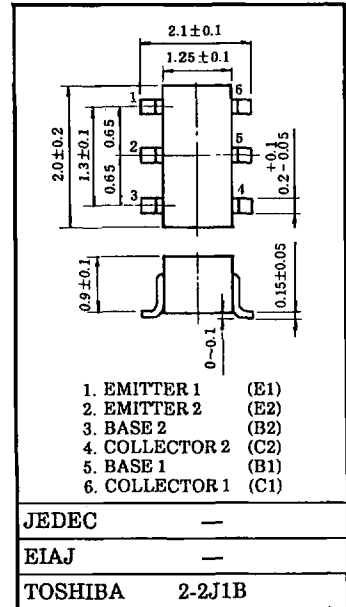
TYPE NO.	R1 (kΩ)	R2 (kΩ)
RN2967	10	47
RN2968	22	47
RN2969	47	22

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

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V _{CBO}	-50	V
Collector-Emitter Voltage	V _{CEO}	-50	V
Emitter-Base Voltage	RN2967	-6	V
	RN2968	-7	
	RN2969	-15	
Collector Current	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

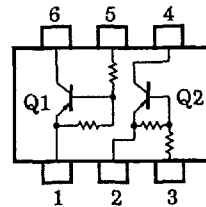
* : Total Rating

Unit in mm



Weight : 6.8mg

EQUIVALENT CIRCUIT
(TOP VIEW)



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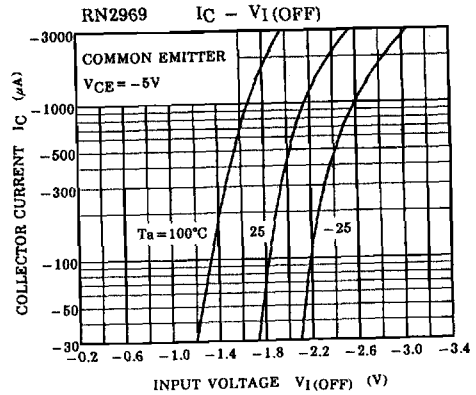
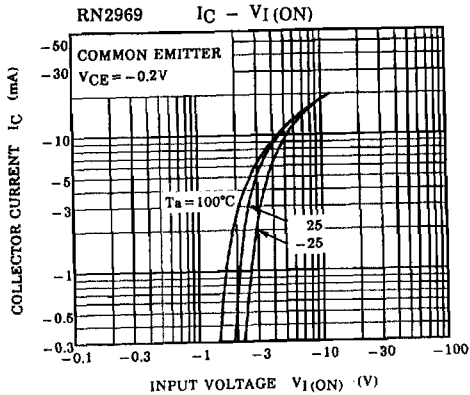
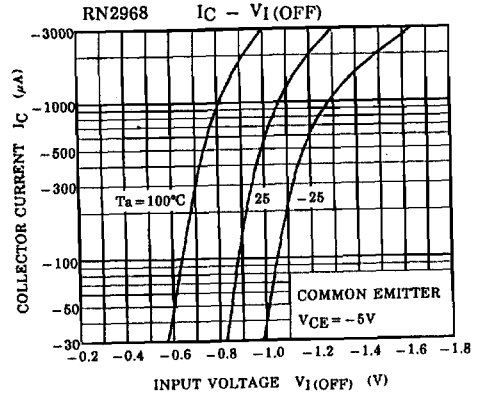
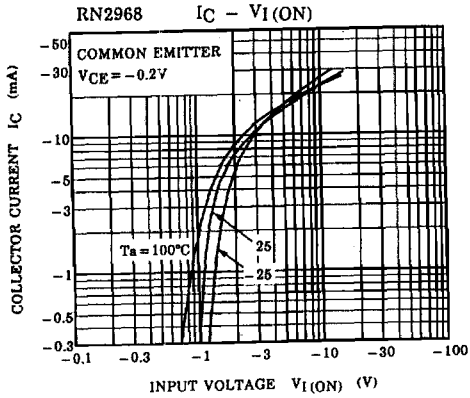
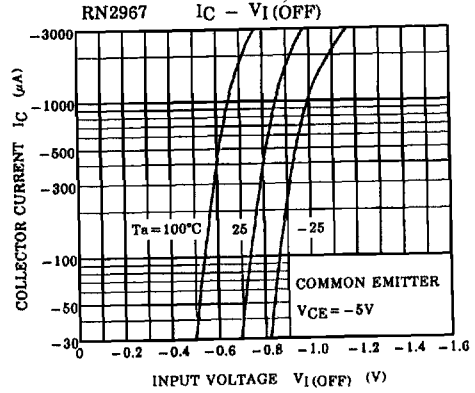
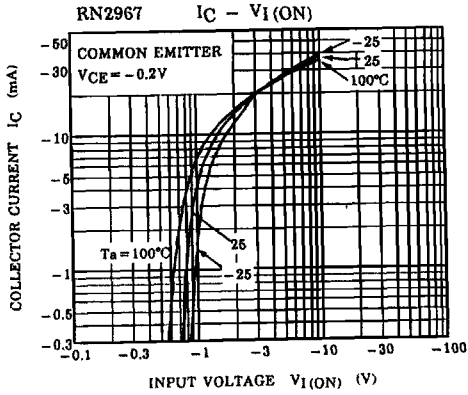
(RN2967)

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

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	RN2967~ 2969	ICBO	V _{CB} = -50V, I _E = 0	—	—	-100	nA
		ICEO	V _{CE} = -50V, I _B = 0	—	—	-500	
Emitter Cut-off Current	RN2967	IEBO	V _{EB} = -6V, I _C = 0	-0.081	—	-0.15	mA
	RN2968		V _{EB} = -7V, I _C = 0	-0.078	—	-0.145	
	RN2969		V _{EB} = -15V, I _C = 0	-0.167	—	-0.311	
DC Current Gain	RN2967	h _{FE}	V _{CE} = -5V, I _C = -10mA	80	—	—	
	RN2968			80	—	—	
	RN2969			70	—	—	
Collector-Emitter Saturation Voltage	RN2967~ 2969	V _{CE(sat)}	I _C = -5mA I _B = -0.25mA	—	-0.1	-0.3	V
Input Voltage (ON)	RN2967	V _{I(ON)}	V _{CE} = -0.2V I _C = -5mA	-0.7	—	-1.8	V
	RN2968			-1.0	—	-2.6	
	RN2969			-2.2	—	-5.8	
Input Voltage (OFF)	RN2967	V _{I(OFF)}	V _{CE} = -5V I _C = -0.1mA	-0.5	—	-1.0	V
	RN2968			-0.6	—	-1.16	
	RN2969			-1.5	—	-2.6	
Transition Frequency	RN2967~ 2969	f _T	V _{CE} = -10V, I _C = -5mA	—	200	—	MHz
Collector Output Capacitance	RN2967~ 2969	C _{ob}	V _{CB} = -10V, I _E = 0, f = 1MHz	—	3	6	pF
Input Resistor	RN2967	R1		7	10	13	kΩ
	RN2968			15.4	22	28.6	
	RN2969			32.9	47	61.1	
Resistor Ratio	RN2967	R1 / R2		0.191	0.213	0.232	
	RN2968			0.421	0.468	0.515	
	RN2969			0.09	2.14	2.35	

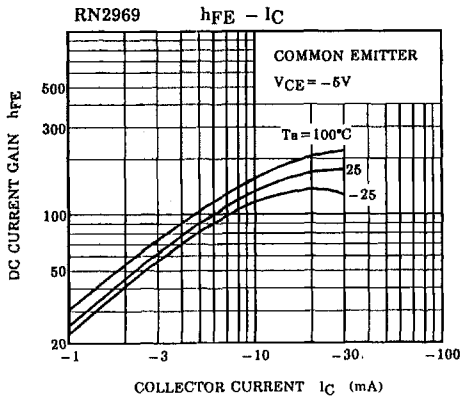
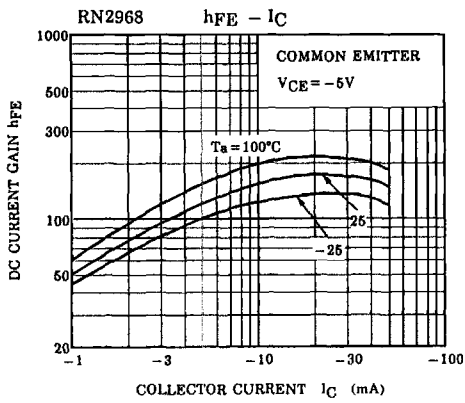
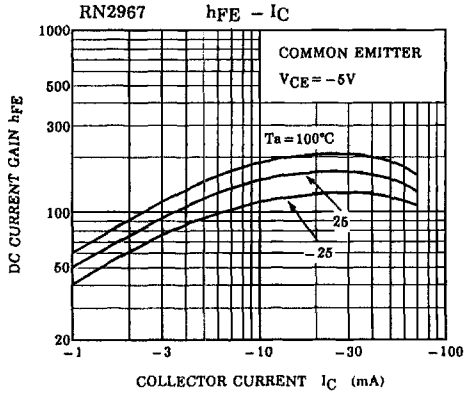
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(Q1, Q2 COMMON)



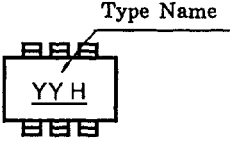
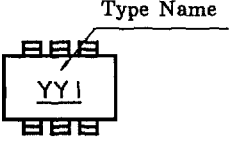
(RN2967)

(Q1, Q2 COMMON)



RN2967, 2968, 2969

(RN2967)

TYPE NAME	MARKING
RN2967	
RN2968	
RN2969	