

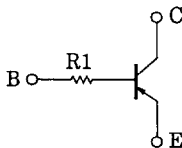
RN2970, RN2971

SILICON PNP EPITAXIAL TYPE

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 RN1970~RN1971

EQUIVALENT CIRCUIT



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

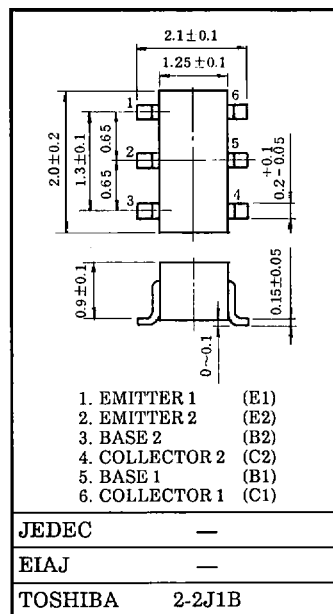
CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CB0}	-50	V
Collector-Emitter Voltage	V_{CE0}	-50	V
Emitter-Base Voltage	V_{EB0}	-5	V
Collector Current	I_C	-100	mA
Collector Power Dissipation	P_C^*	200	mW
Junction Temperature	T_j	150	°C
Storage Temperature Range	T_{stg}	-55~150	°C

* : Total Rating

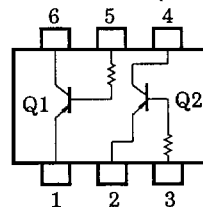
ELECTRICAL CHARACTERISTICS (Ta = 25°C) (Q1, Q2 COMMON)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT	
Collector Cut-off Current	I_{CB0}	$V_{CB} = -50V, I_E = 0$	—	—	-100	nA	
Emitter Cut-off Current	I_{EB0}	$V_{EB} = -5V, I_C = 0$	—	—	-100	nA	
DC Current Gain	h_{FE}	$V_{CE} = -5V, I_C = -1mA$	120	—	400		
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = -5mA, I_B = -0.25mA$	—	-0.1	-0.3	V	
Transition Frequency	f_T	$V_{CE} = -10V, I_C = -5mA$	—	200	—	MHz	
Collector Output Capacitance	C_{ob}	$V_{CB} = -10V, I_E = 0, f = 1MHz$	—	3	6	pF	
Input Resistor	RN2970	R1	—	3.29	4.7	6.11	kΩ
	RN2971			7	10	13	

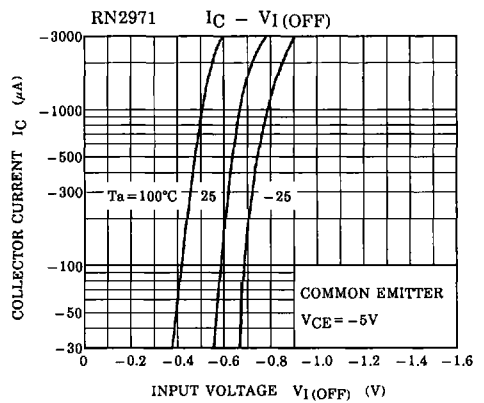
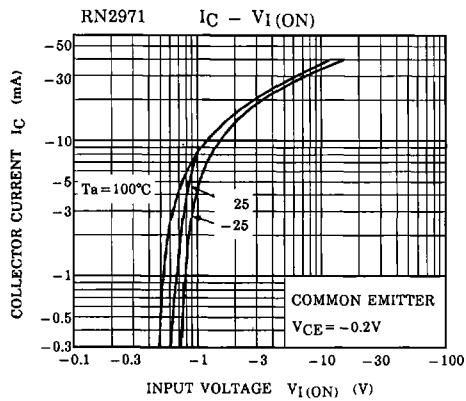
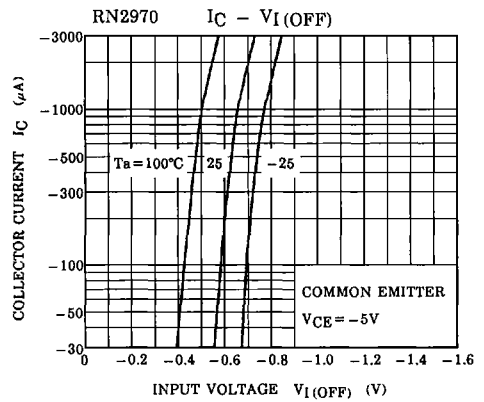
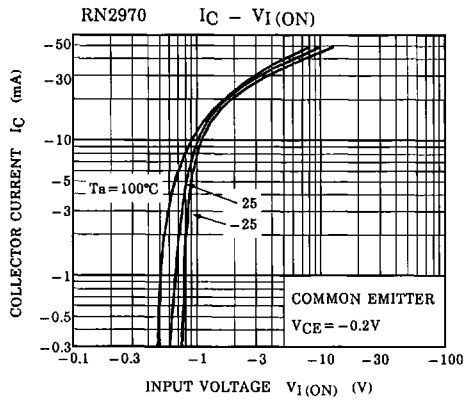
Unit in mm



EQUIVALENT CIRCUIT (TOP VIEW)

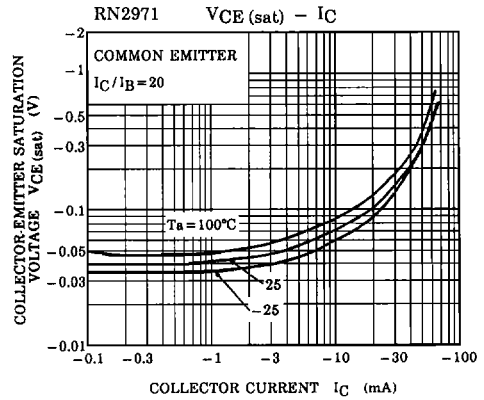
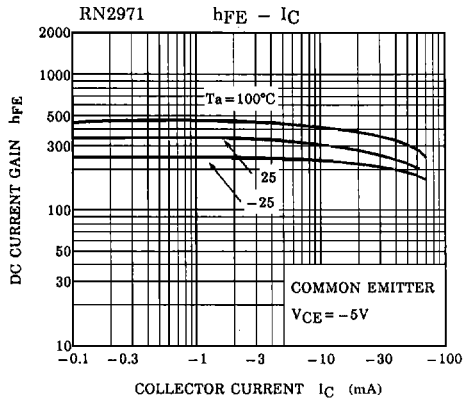
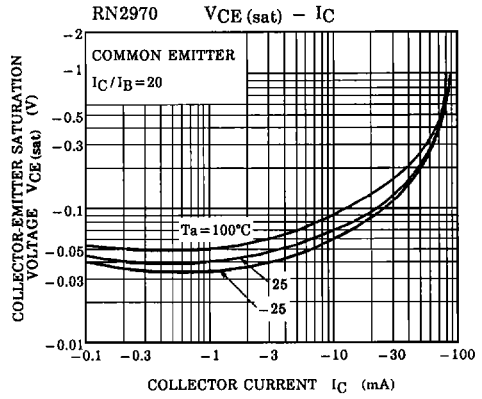
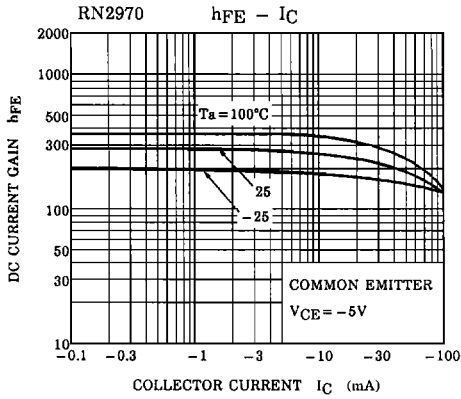


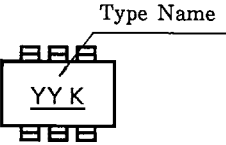
(Q1, Q2 COMMON)



RN2970, RN2971

(Q1, Q2, COMMON)



TYPE NAME	MARKING
RN2970	
RN2971	