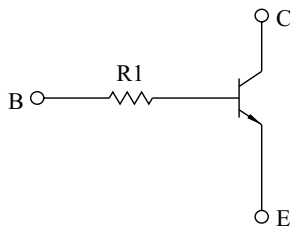


SWITCHING APPLICATION.
INTERFACE CIRCUIT AND DRIVER CIRCUIT APPLICATION.

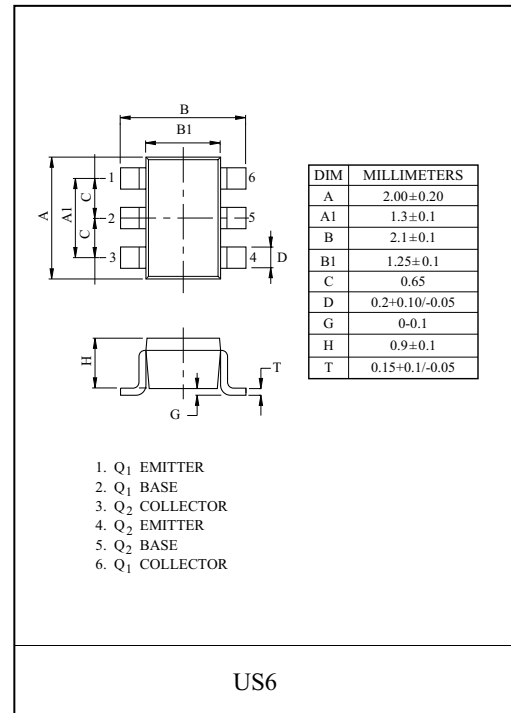
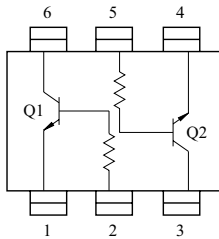
FEATURES

- With Built-in Bias Resistors.
- Simplify Circuit Design.
- Reduce a Quantity of Parts and Manufacturing Process.
- High Packing Density.

EQUIVALENT CIRCUIT



EQUIVALENT CIRCUIT (TOP VIEW)



MAXIMUM RATING (Ta=25 °C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	50	V
Collector-Emitter Voltage	V_{CEO}	50	V
Emitter-Base Voltage	V_{EBO}	5	V
Collector Current	I_C	100	mA

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector Power Dissipation	P_C *	200	mW
Junction Temperature	T_j	150	°C
Storage Temperature Range	T_{stg}	-55 ~ 150	°C

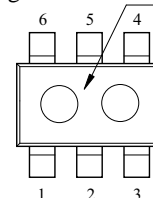
* Total Rating.

ELECTRICAL CHARACTERISTICS (Ta=25 °C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT	
Collector Cut-off Current	I_{CBO}	$V_{CB}=50V, I_E=0$	-	-	100	nA	
Emitter Cut-off Current	I_{EBO}	$V_{EB}=5V, I_C=0$	-	-	100	nA	
DC Current Gain	h_{FE}	$V_{CE}=5V, I_C=1mA$	120	-	-		
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=10mA, I_B=0.5mA$	-	0.1	0.3	V	
Transition Frequency	f_T *	$V_{CE}=10V, I_C=5mA$	-	250	-	MHz	
Input Resistor	KRC860U	R_1		-	4.7	-	k Ω
	KRC861U			-	10	-	
	KRC862U			-	100	-	
	KRC863U			-	22	-	
	KRC864U			-	47	-	

Note : * Characteristic of Transistor Only.

Marking Type Name



MARK SPEC

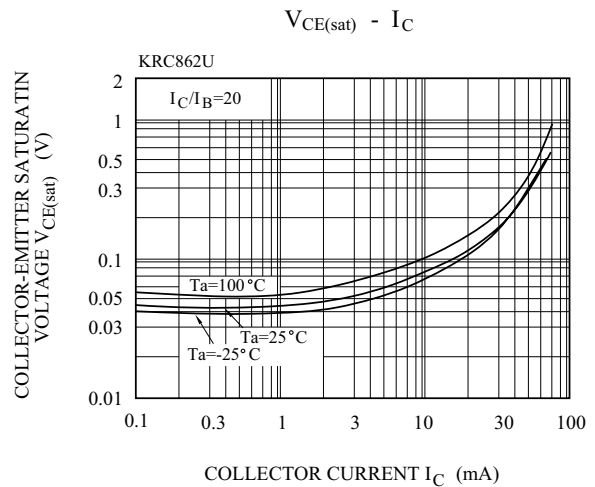
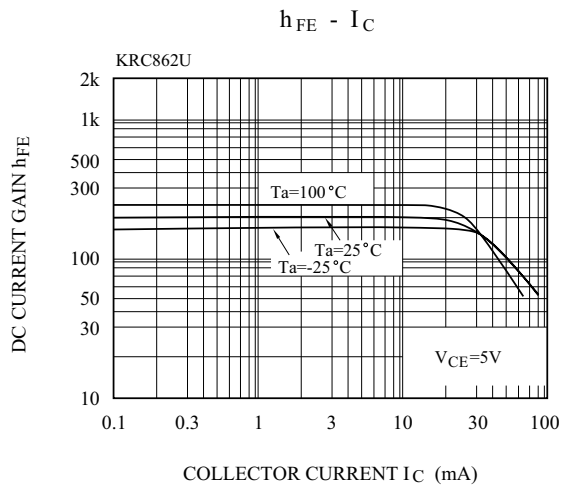
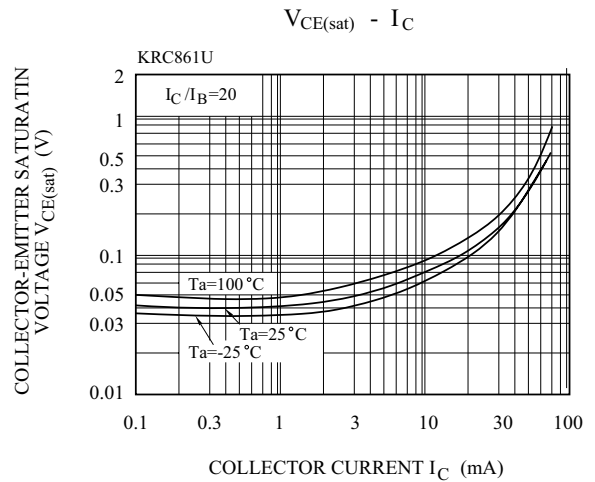
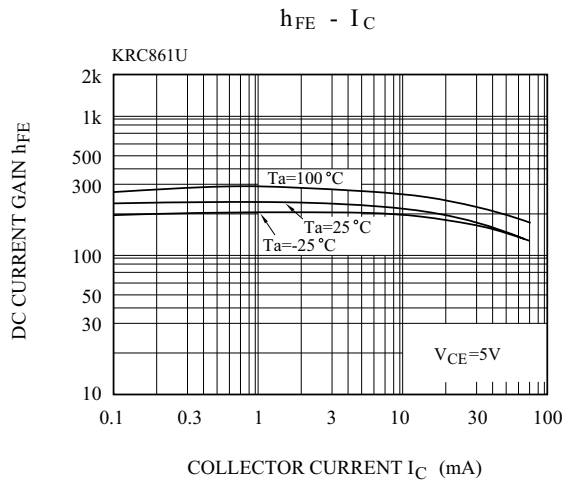
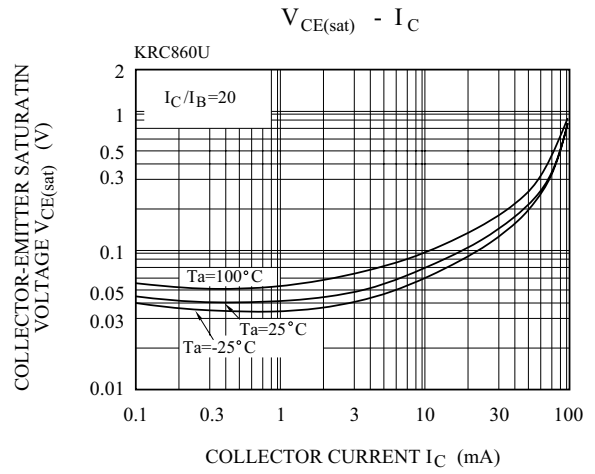
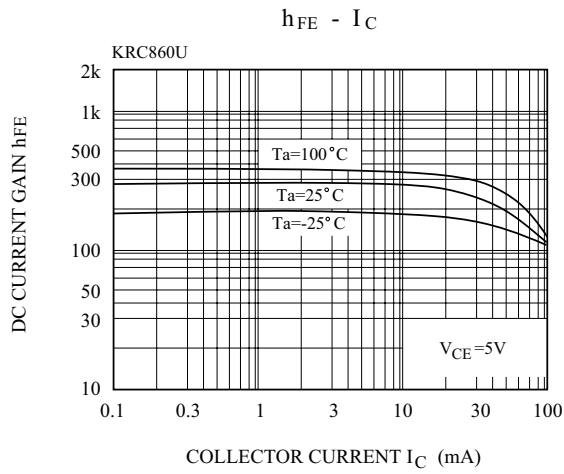
TYPE	KRC860U	KRC861U	KRC862U	KRC863U	KRC864U
MARK	NK	NM	NN	NO	NP

KRC860U~KRC864U

ELECTRICAL CHARACTERISTICS (Ta=25 °C)

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT	
Switching Time	Rise Time	KRC860U	V _O =5V V _{IN} =5V R _L =1k Ω	-	0.025	-	μS	
		KRC861U		-	0.03	-		
		KRC862U		-	0.3	-		
		KRC863U		-	0.06	-		
		KRC864U		-	0.11	-		
	Storage Time	KRC860U		t _{stg}	-	3.0		-
		KRC861U			-	2.0		-
		KRC862U			-	6.0		-
		KRC863U			-	4.0		-
		KRC864U			-	5.0		-
	Fall Time	KRC860U		t _f	-	0.2		-
		KRC861U			-	0.12		-
		KRC862U			-	2.0		-
		KRC863U			-	0.9		-
		KRC864U			-	1.4		-

KRC860U~KRC864U



KRC860U~KRC864U

