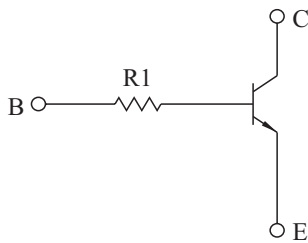


SWITCHING APPLICATION.
INTERFACE CIRCUIT AND DRIVER CIRCUIT APPLICATION.

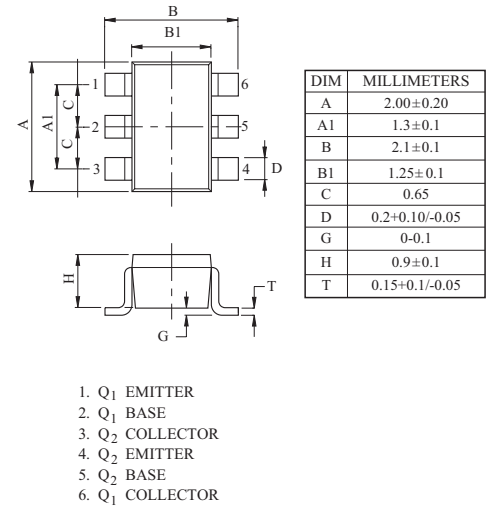
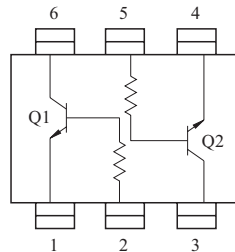
FEATURES

- 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)



US6

MAXIMUM RATING (Ta=25℃)

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	℃
Storage Temperature Range	T_{stg}	-55~150	℃

* Total Rating.

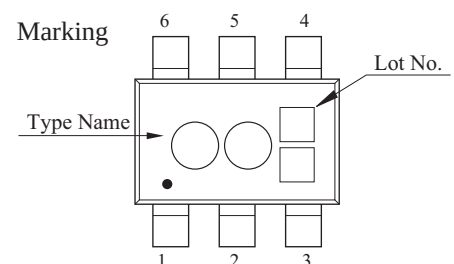
ELECTRICAL CHARACTERISTICS (Ta=25℃)

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.

MARK SPEC

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



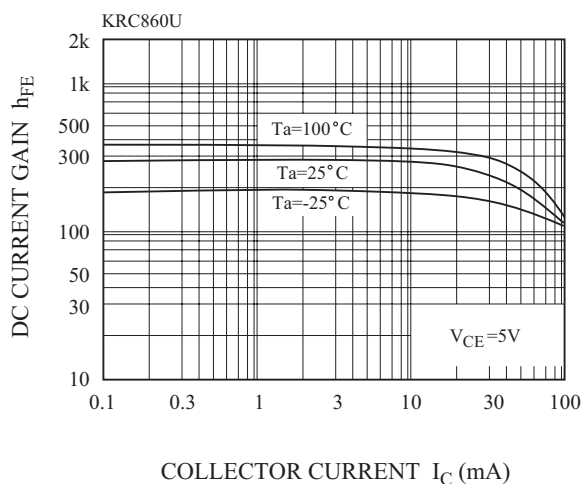
KRC860U~KRC864U

ELECTRICAL CHARACTERISTICS (Ta=25 °C)

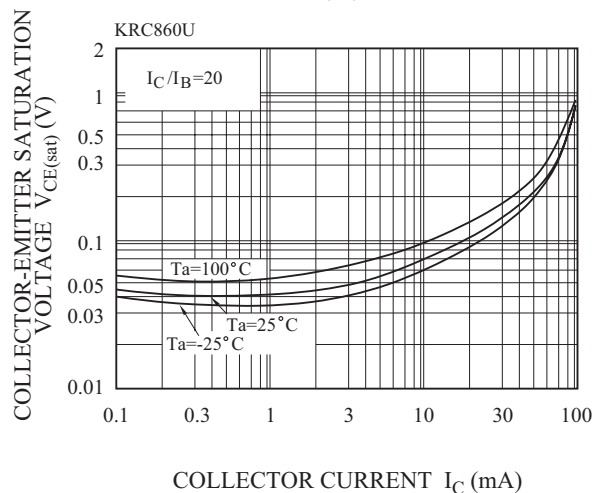
CHARACTERISTIC			SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Switching Time	Rise Time	KRC860U	t _r	V _O =5V V _{IN} =5V R _L =1k Ω	-	0.025	-	μS
		KRC861U			-	0.03	-	
		KRC862U			-	0.3	-	
		KRC863U			-	0.06	-	
		KRC864U			-	0.11	-	
	Storage Time	KRC860U	t _{stg}		-	3.0	-	
		KRC861U			-	2.0	-	
		KRC862U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

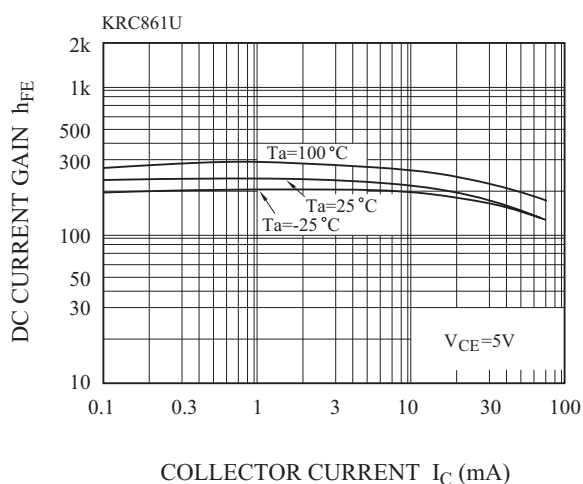
$h_{FE} - I_C$



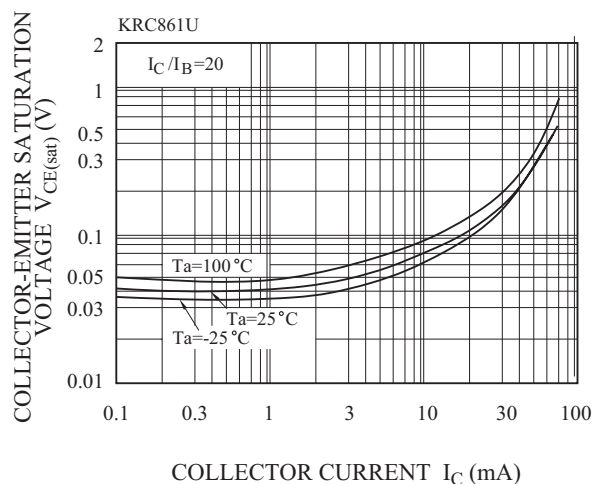
$V_{CE(sat)} - I_C$



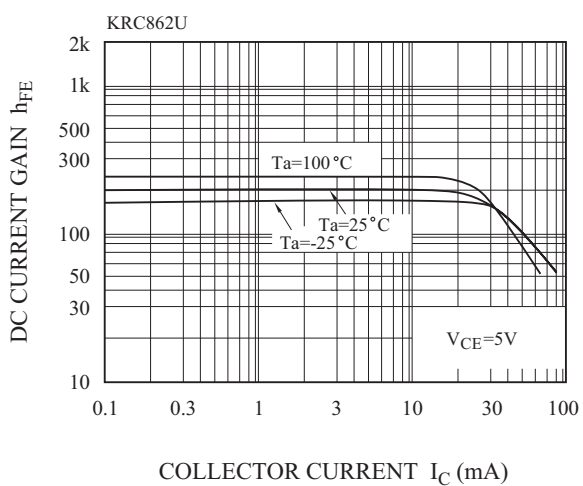
$h_{FE} - I_C$



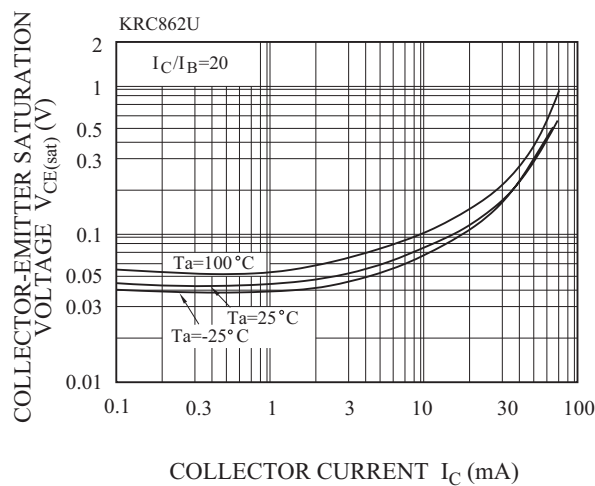
$V_{CE(sat)} - I_C$



$h_{FE} - I_C$

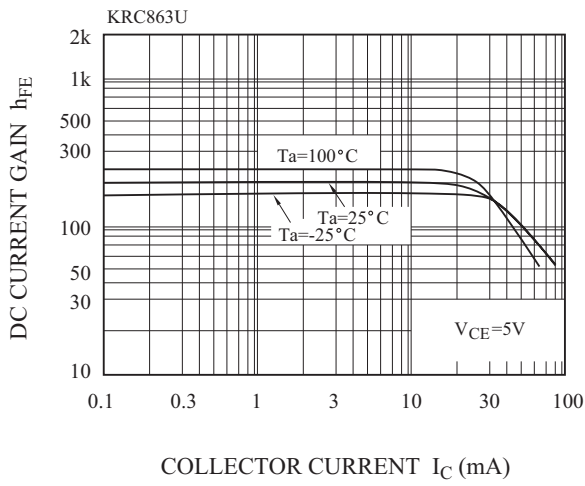


$V_{CE(sat)} - I_C$

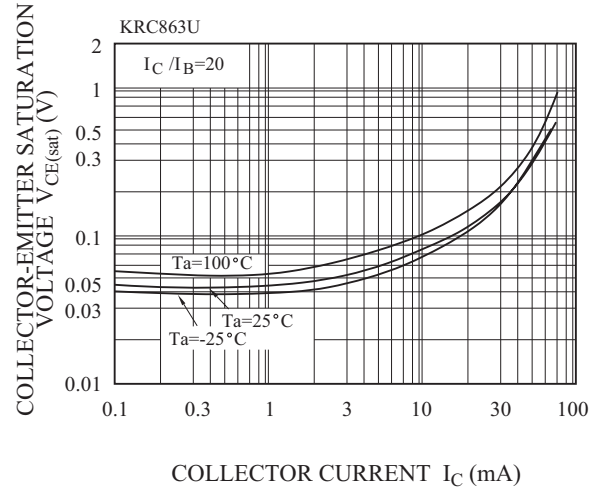


KRC860U~KRC864U

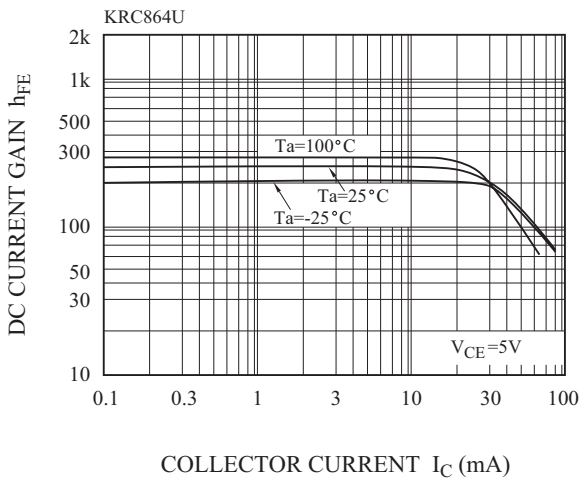
$h_{FE} - I_C$



$V_{CE(sat)} - I_C$



$h_{FE} - I_C$



$V_{CE(sat)} - I_C$

