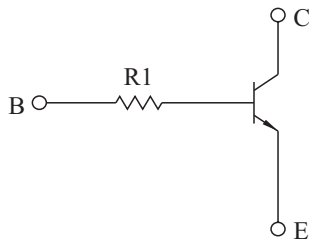


SWITCHING APPLICATION.
INTERFACE CIRCUIT AND DRIVER CIRCUIT APPLICATION.

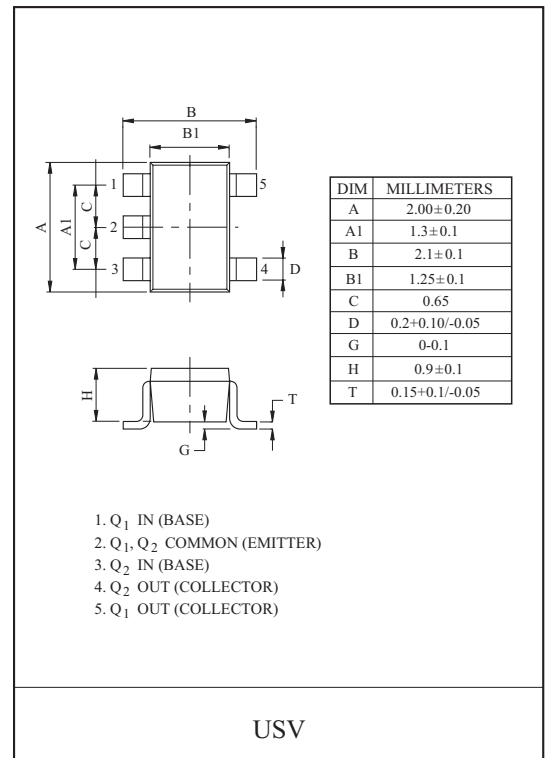
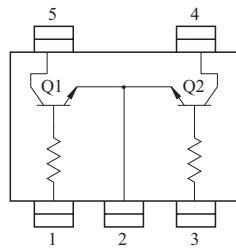
FEATURES

- 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

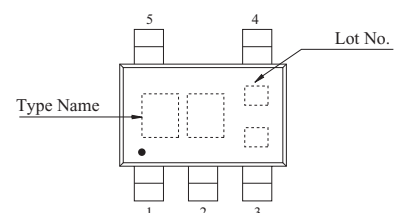
* Total Rating.

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	KRC660U	R ₁		3.29	4.7	6.11	k Ω
	KRC661U			7	10	13	
	KRC662U			70	100	130	
	KRC663U			15.4	22	28.6	
	KRC664U			32.9	47	61.1	

Note : * Characteristic of Transistor Only.

Marking



MARK SPEC

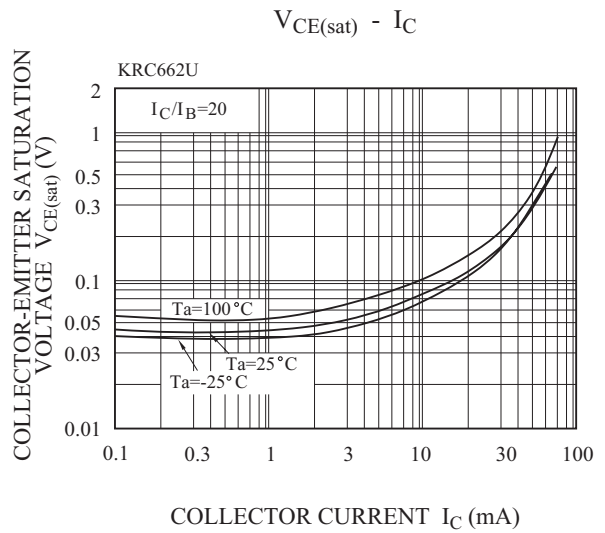
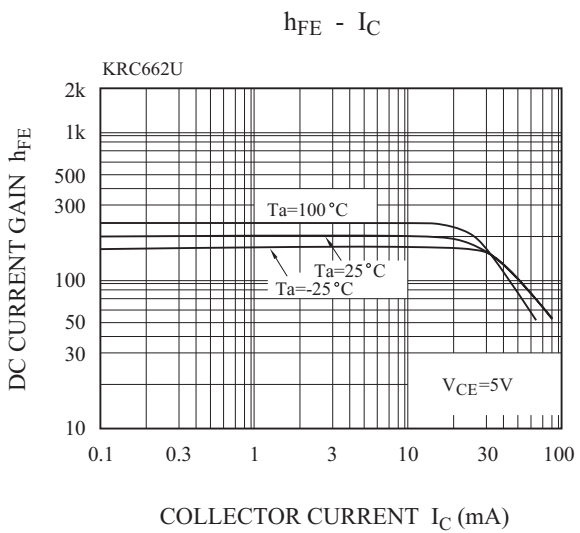
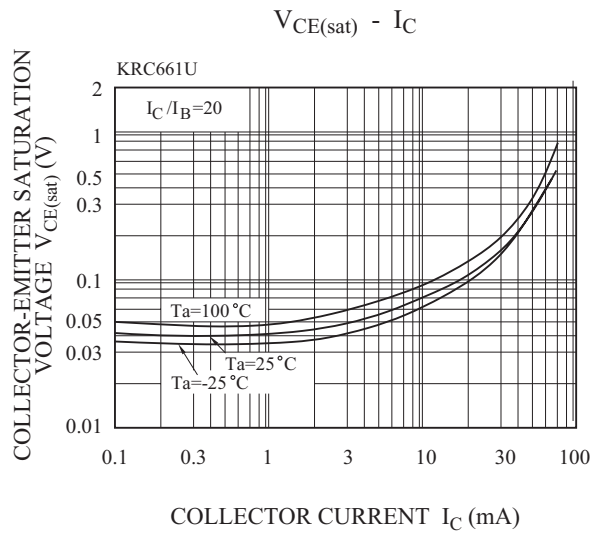
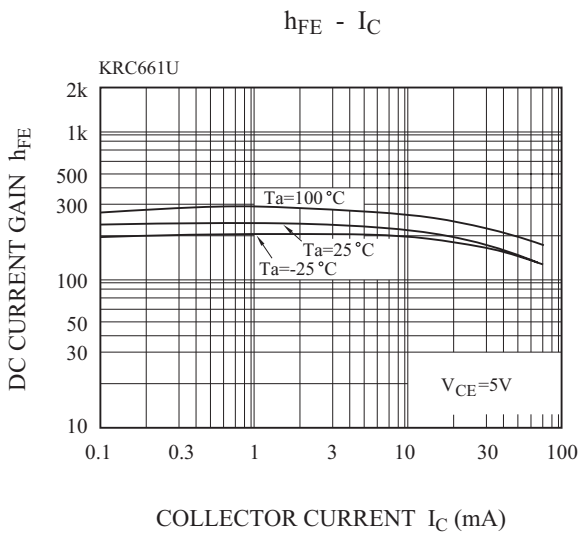
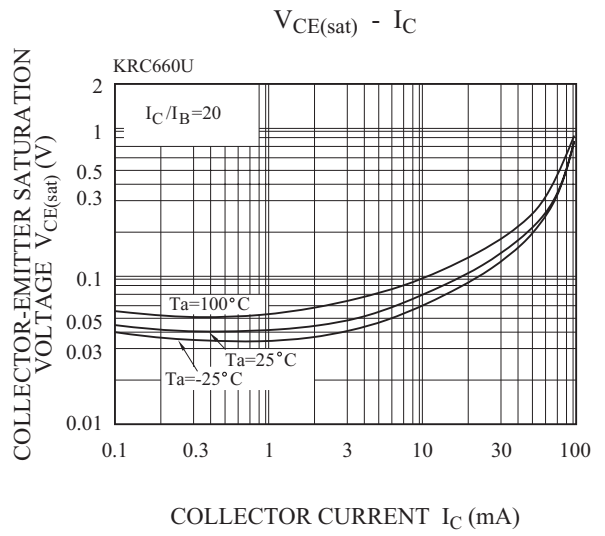
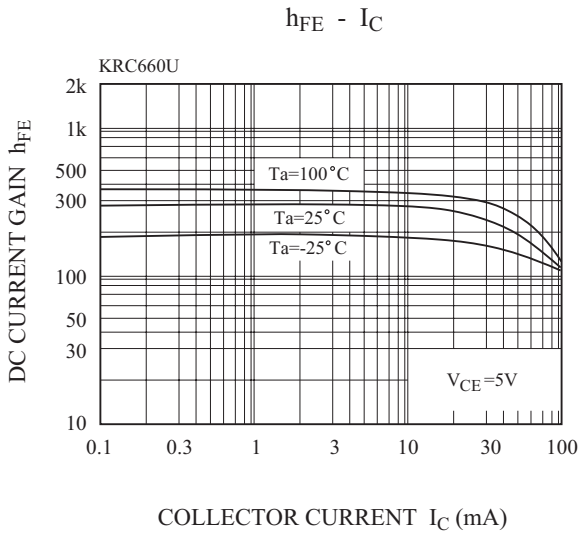
TYPE	KRC660U	KRC661U	KRC662U	KRC663U	KRC664U
MARK	NK	NM	NN	NO	NP

KRC660U~KRC664U

ELECTRICAL CHARACTERISTICS (Ta=25 °C)

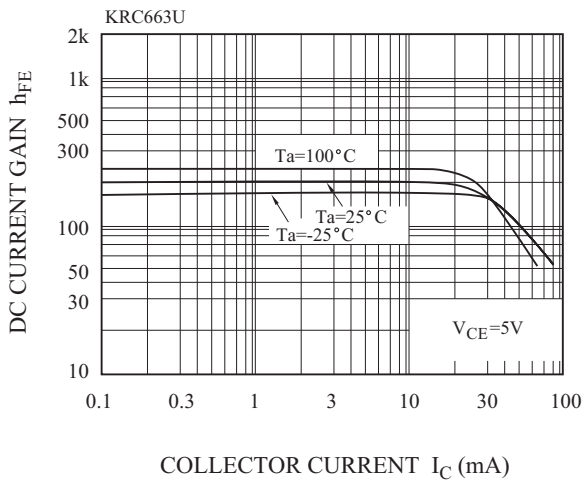
CHARACTERISTIC			SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Switching Time	Rise Time	KRC660U	t_r	$V_O=5V$ $V_{IN}=5V$ $R_L=1k \Omega$	-	0.025	-	μS
		KRC661U			-	0.03	-	
		KRC662U			-	0.3	-	
		KRC663U			-	0.06	-	
		KRC664U			-	0.11	-	
	Storage Time	KRC660U	t_{stg}		-	3.0	-	
		KRC661U			-	2.0	-	
		KRC662U			-	6.0	-	
		KRC663U			-	4.0	-	
		KRC664U			-	5.0	-	
	Fall Time	KRC660U	t_f		-	0.2	-	
		KRC661U			-	0.12	-	
		KRC662U			-	2.0	-	
		KRC663U			-	0.9	-	
		KRC664U			-	1.4	-	

KRC660U~KRC664U

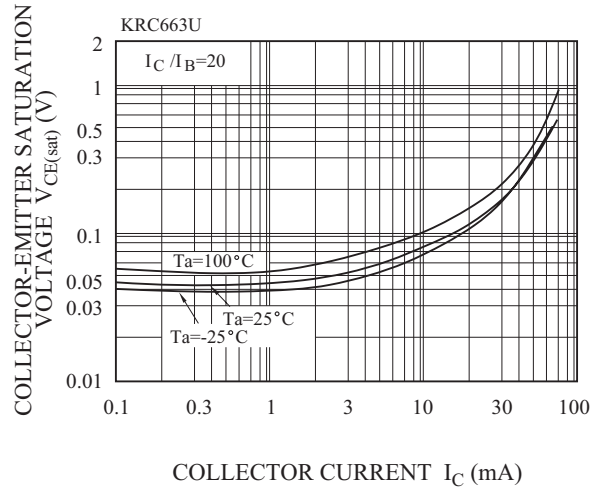


KRC660U~KRC664U

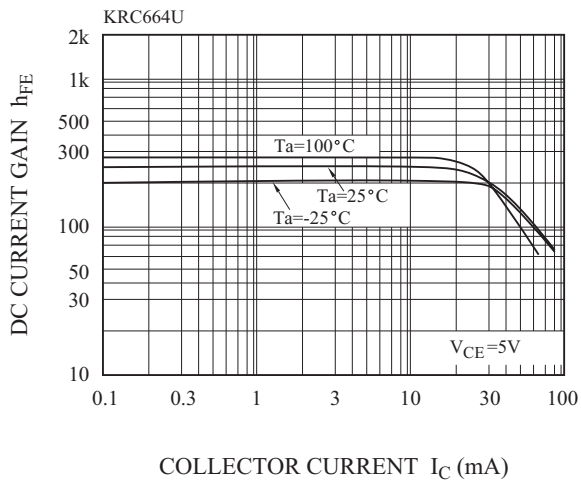
$h_{FE} - I_C$



$V_{CE(sat)} - I_C$



$h_{FE} - I_C$



$V_{CE(sat)} - I_C$

