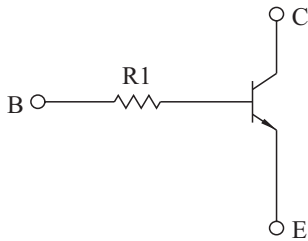


SWITCHING APPLICATION.
INTERFACE CIRCUIT AND DRIVER CIRCUIT APPLICATION.

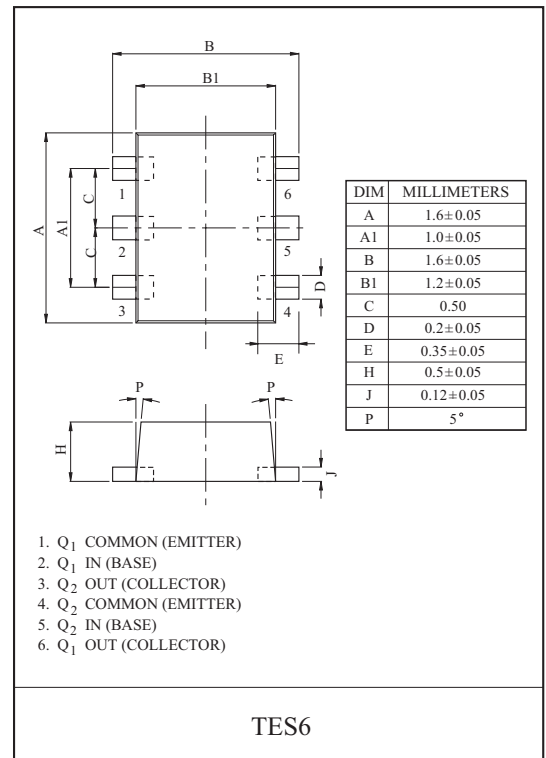
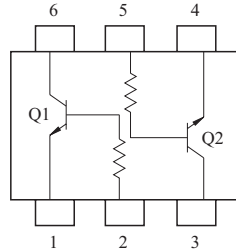
FEATURES

- With Built-in Bias Resistors.
- Simplify Circuit Design.
- Reduce a Quantity of Parts and Manufacturing Process.
- High Packing Density.
- Suffix U : Qualified to AEC-Q101.
ex) KRC861E-RTK/HU

EQUIVALENT CIRCUIT



EQUIVALENT CIRCUIT (TOP VIEW)



MAXIMUM RATING (Ta=25 °C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V _{CB0}	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	-55~150	
Storage Temperature Range	T _{stg}	-55~150	

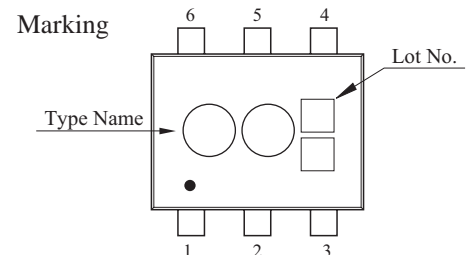
* Total Rating.

ELECTRICAL CHARACTERISTICS (Ta=25 °C)

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 _{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	KRC860E	R ₁		3.29	4.7	6.11	k
	KRC861E			7	10	13	
	KRC862E			70	100	130	
	KRC863E			15.4	22	28.6	
	KRC864E			32.9	47	61.1	

MARK SPEC

TYPE	KRC860E	KRC861E	KRC862E	KRC863E	KRC864E
MARK	NK	NM	NN	NO	NP

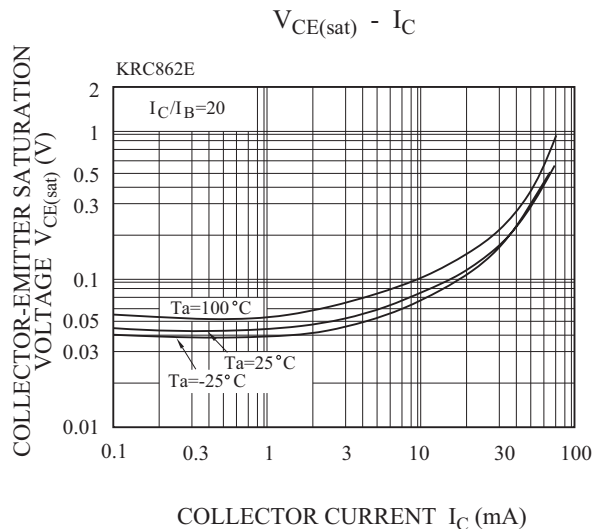
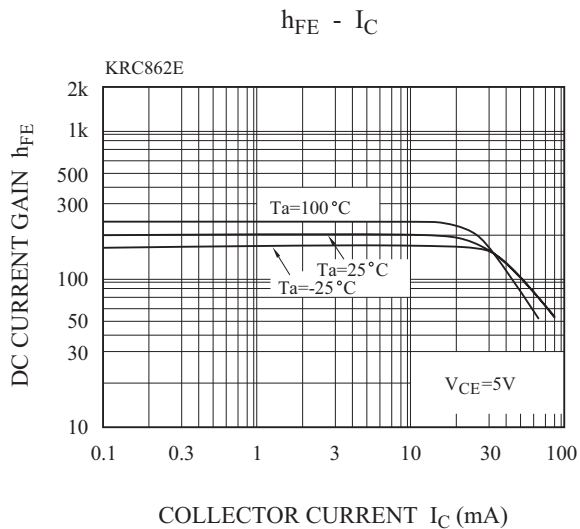
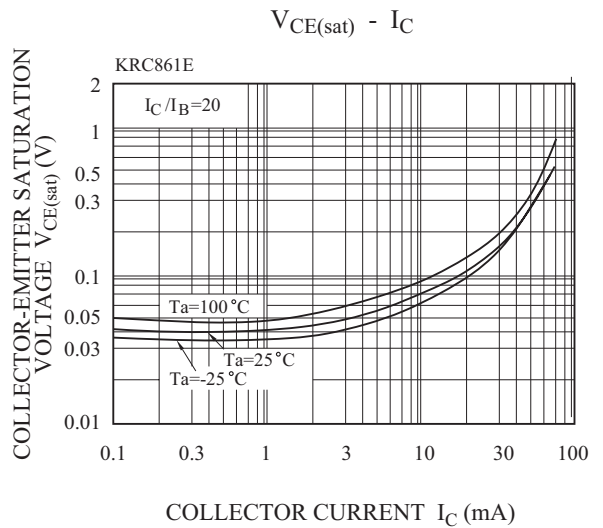
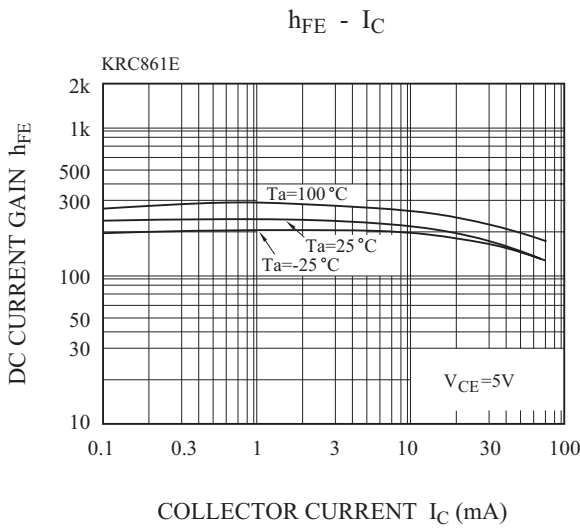
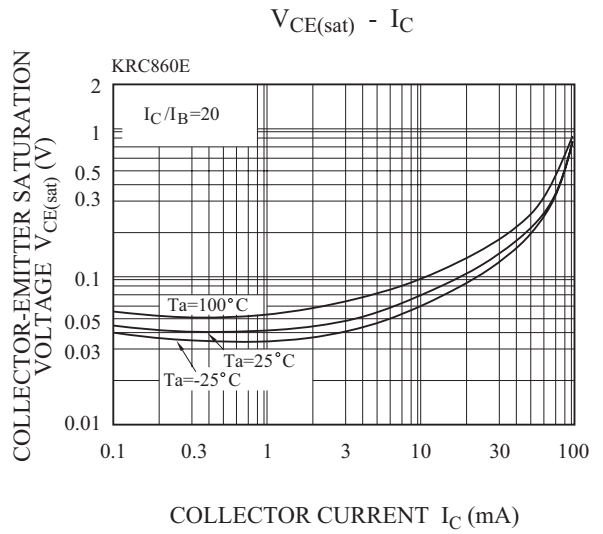
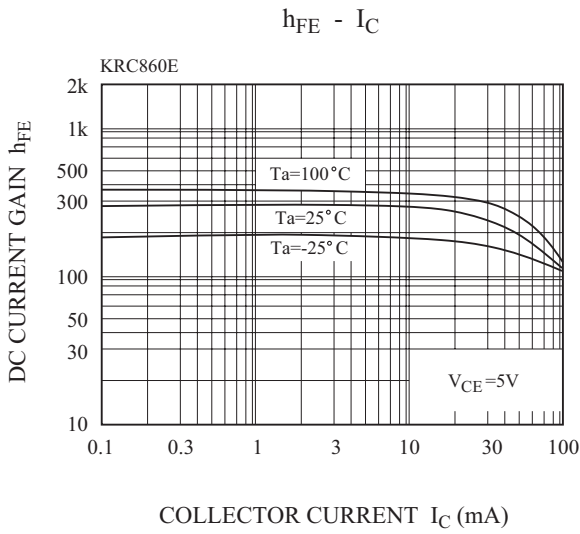


KRC860E~KRC864E

ELECTRICAL CHARACTERISTICS (Ta=25)

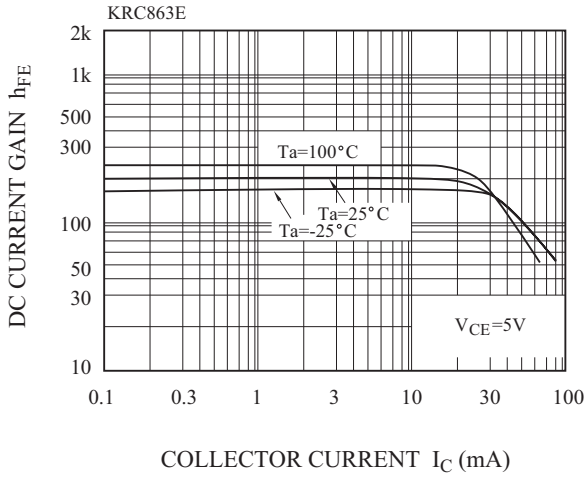
CHARACTERISTIC			SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Switching Time	Rise Time	KRC860E	t_r	$V_O=5V$ $V_{IN}=5V$ $R_L=1k$	-	0.025	-	μS
		KRC861E			-	0.03	-	
		KRC862E			-	0.3	-	
		KRC863E			-	0.06	-	
		KRC864E			-	0.11	-	
	Storage Time	KRC860E	t_{stg}		-	3.0	-	
		KRC861E			-	2.0	-	
		KRC862E			-	6.0	-	
		KRC863E			-	4.0	-	
		KRC864E			-	5.0	-	
	Fall Time	KRC860E	t_f		-	0.2	-	
		KRC861E			-	0.12	-	
		KRC862E			-	2.0	-	
		KRC863E			-	0.9	-	
		KRC864E			-	1.4	-	

KRC860E~KRC864E

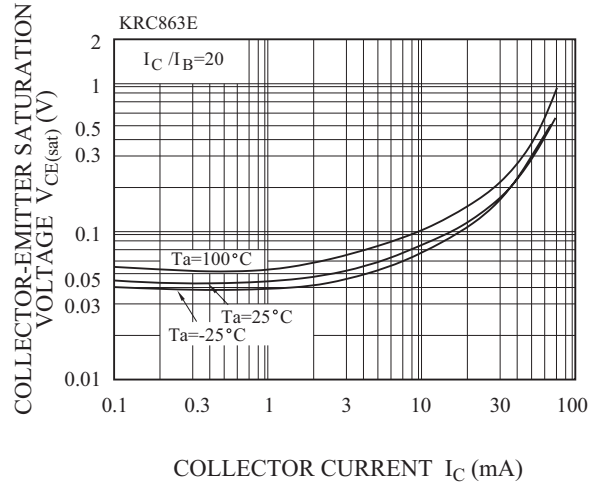


KRC860E~KRC864E

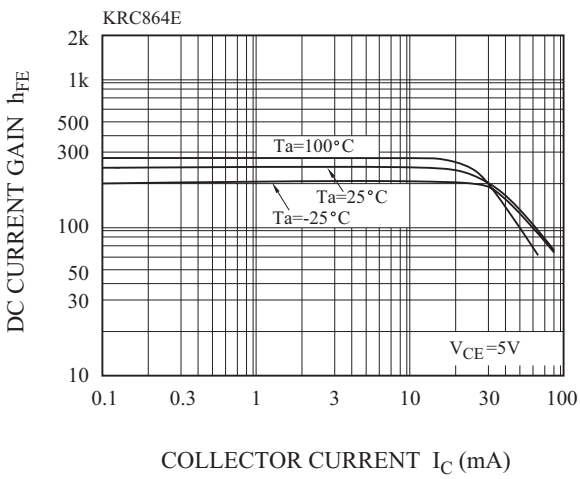
$h_{FE} - I_C$



$V_{CE(sat)} - I_C$



$h_{FE} - I_C$



$V_{CE(sat)} - I_C$

