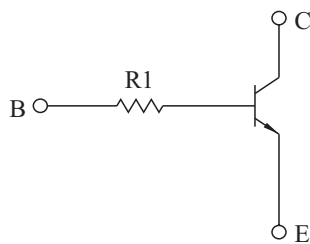


SWITCHING APPLICATION.
INTERFACE CIRCUIT AND DRIVER CIRCUIT APPLICATION.

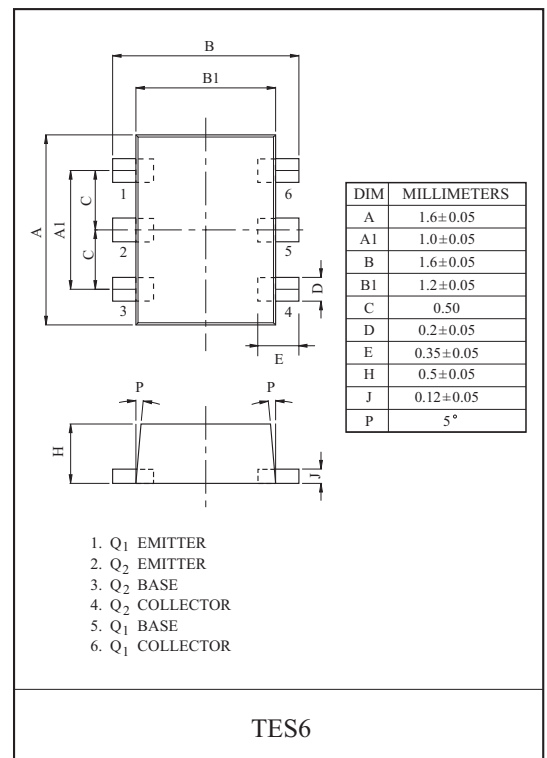
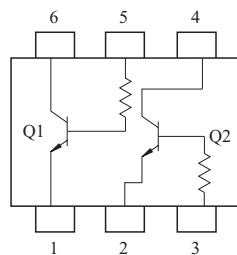
FEATURES

- 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) KRC830E-RTK/HU

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

* Total Raing.

ELECTRICAL CHARACTERISTICS (Ta=25 °C)

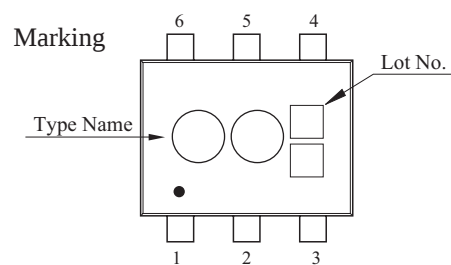
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	$V_{CB}=50V, I_E=0$	-	-	100	nA
Emitter Cut-off Current	I_{EBO}	$V_{EB}=5V, I_C=0$	-	-	100	nA
DC Current Gain	h_{FE}	$V_{CE}=5V, I_C=1mA$	120	-	-	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=10mA, I_B=0.5mA$	-	0.1	0.3	V
Transition Frequency	f_T *	$V_{CE}=10V, I_C=5mA$	-	250	-	MHz
Input Resistor	KRC830E	R_1	3.29	4.7	6.11	kΩ
	KRC831E		7	10	13	
	KRC832E		70	100	130	
	KRC833E		15.4	22	28.6	
	KRC834E		32.9	47	61.1	

Note : * Characteristic of Transistor Only.

KRC830E~KRC834E

MARK SPEC

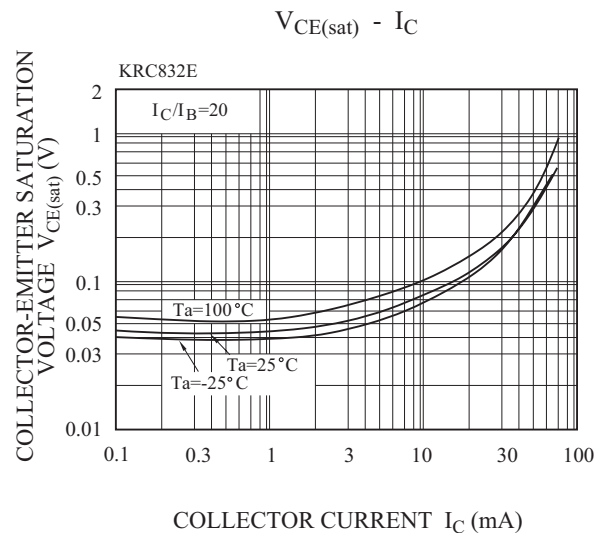
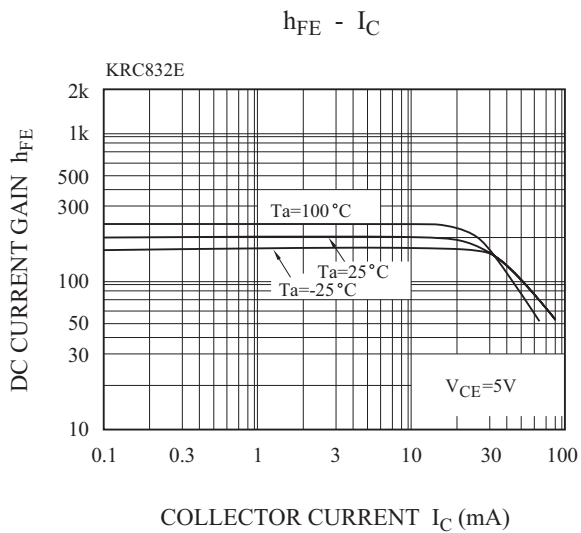
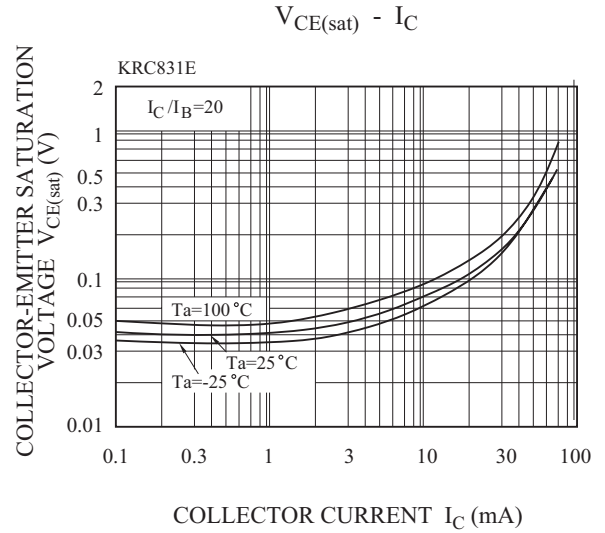
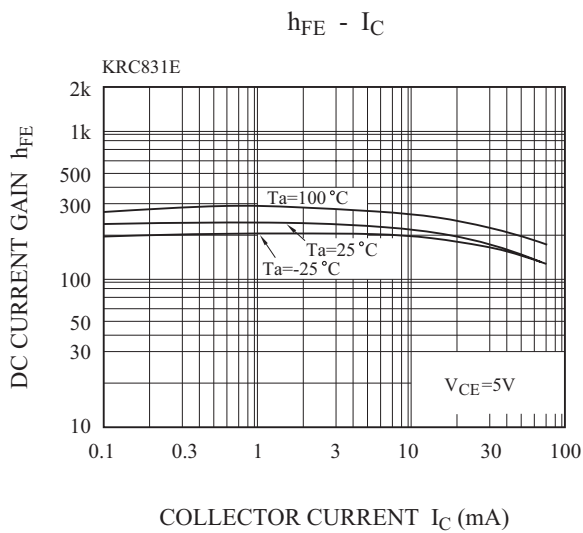
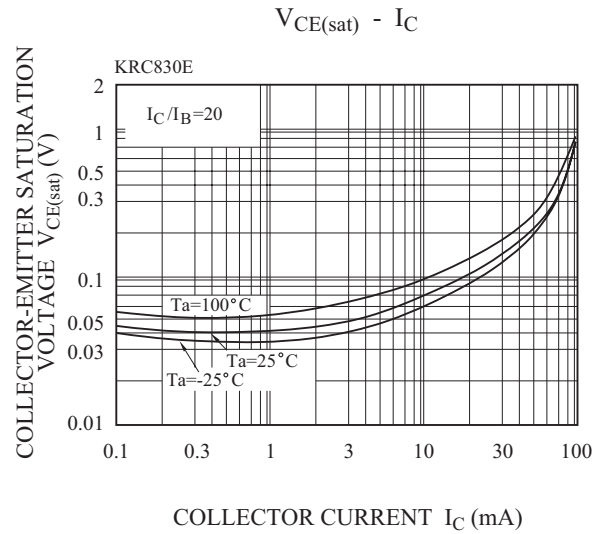
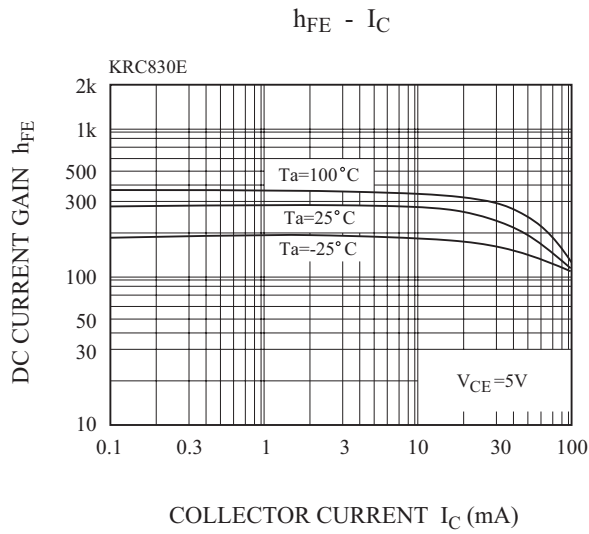
TYPE	KRC830E	KRC831E	KRC832E	KRC833E	KRC834E
MARK	YK	YM	YN	YO	YP



ELECTRICAL CHARACTERISTICS (Ta=25)

CHARACTERISTIC			SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Switching Time	Rise Time	KRC830E	t_r	$V_O=5V$ $V_{IN}=5V$ $R_L=1k\Omega$	-	0.025	-	μs
		KRC831E			-	0.03	-	
		KRC832E			-	0.3	-	
		KRC833E			-	0.06	-	
		KRC834E			-	0.11	-	
	Storage Time	KRC830E	t_{stg}		-	3.0	-	
		KRC831E			-	2.0	-	
		KRC832E			-	6.0	-	
		KRC833E			-	4.0	-	
		KRC834E			-	5.0	-	
	Fall Time	KRC830E	t_f		-	0.2	-	
		KRC831E			-	0.12	-	
		KRC832E			-	2.0	-	
		KRC833E			-	0.9	-	
		KRC834E			-	1.4	-	

KRC830E~KRC834E



KRC830E~KRC834E

