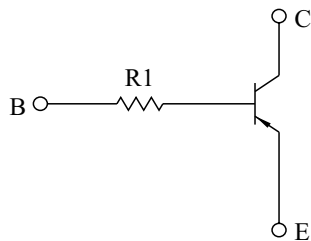


SWITCHING APPLICATION.
INTERFACE CIRCUIT AND DRIVER CIRCUIT APPLICATION.

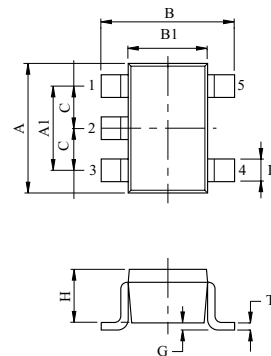
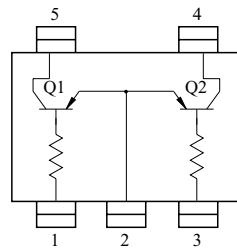
FEATURES

- 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) KRA560U-RTK/HU

EQUIVALENT CIRCUIT



EQUIVALENT CIRCUIT (TOP VIEW)



DIM	MILLIMETERS
A	2.00±0.20
A1	1.3±0.1
B	2.1±0.1
B1	1.25±0.1
C	0.65
D	0.2+0.10/-0.05
G	0-0.1
H	0.9±0.1
T	0.15+0.1/-0.05

1. Q₁ IN (BASE)
2. Q₁, Q₂ COMMON (EMITTER)
3. Q₂ IN (BASE)
4. Q₂ OUT (COLLECTOR)
5. Q₁ OUT (COLLECTOR)

USV

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 Rating.

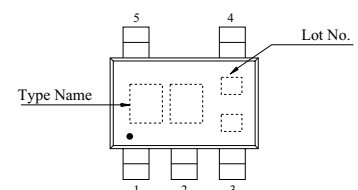
ELECTRICAL CHARACTERISTICS (Ta=25 °C)

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	KRA560U	R _i		3.29	4.7	6.11	kΩ
	KRA561U			7	10	13	
	KRA562U			70	100	130	
	KRA563U			15.4	22	28.6	
	KRA564U			32.9	47	61.1	

MARK SPEC

TYPE	KRA560U	KRA561U	KRA562U	KRA563U	KRA564U
MARK	PK	PM	PN	PO	PP

Marking

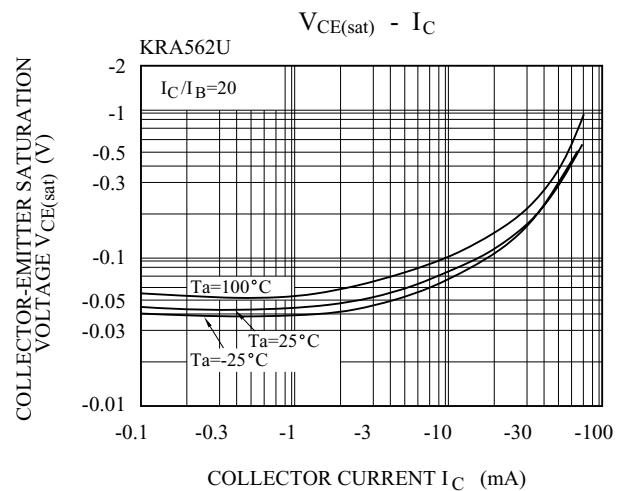
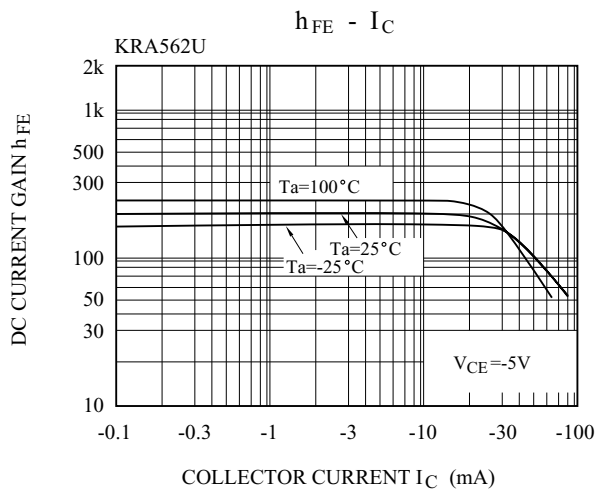
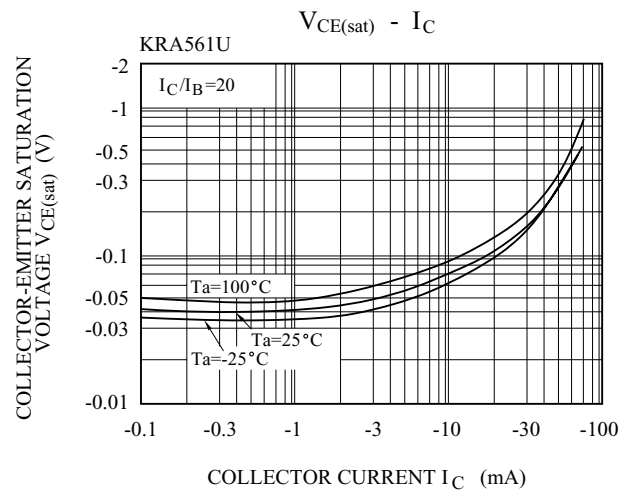
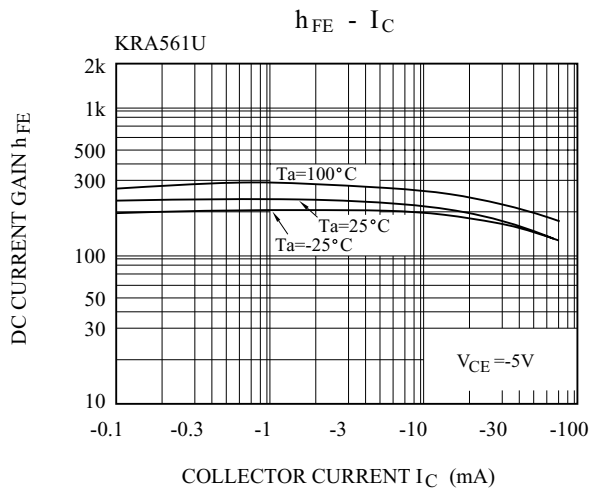
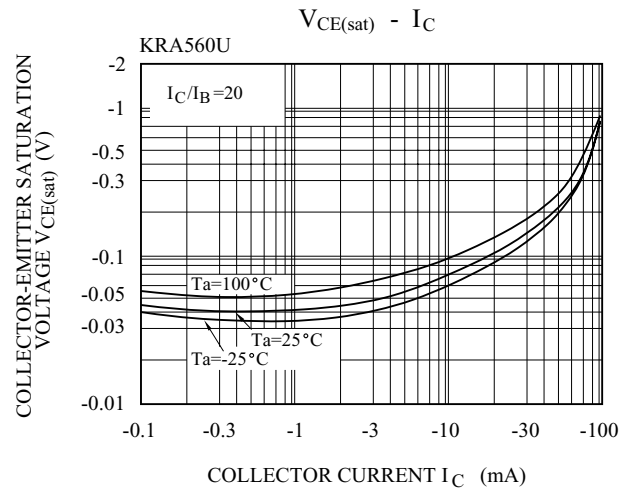
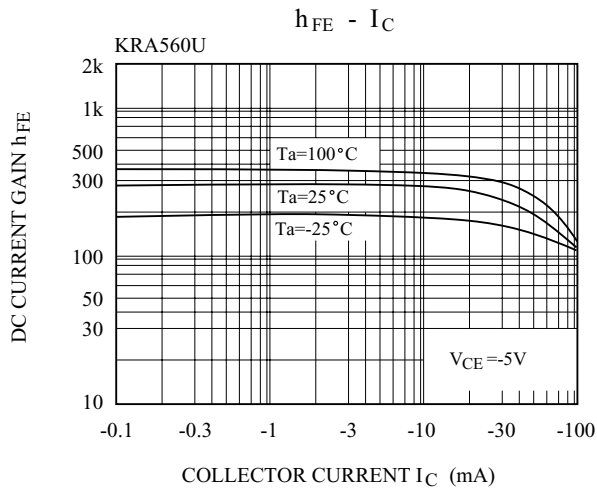


KRA560U~KRA564U

ELECTRICAL CHARACTERISTICS (Ta=25)

CHARACTERISTIC			SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Switching Time	Rise Time	KRA560U	t_r	V_O =-5V V_{IN} =-5V R_L =1k Ω	-	0.2	-	μs
		KRA561U			-	0.065	-	
		KRA562U			-	0.4	-	
		KRA563U			-	0.1	-	
		KRA564U			-	0.15	-	
	Storage Time	KRA560U	t_{stg}		-	2.0	-	
		KRA561U			-	1.7	-	
		KRA562U			-	3.0	-	
		KRA563U			-	2.0	-	
		KRA564U			-	1.5	-	
	Fall Time	KRA560U	t_f		-	0.3	-	
		KRA561U			-	0.3	-	
		KRA562U			-	1.7	-	
		KRA563U			-	0.8	-	
		KRA564U			-	1.5	-	

KRA560U~KRA564U



KRA560U~KRA564U

