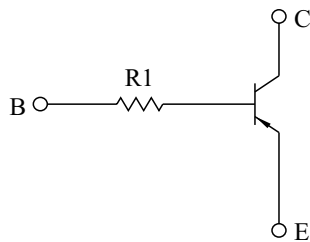


SWITCHING APPLICATION.
INTERFACE CIRCUIT AND DRIVER CIRCUIT APPLICATION.

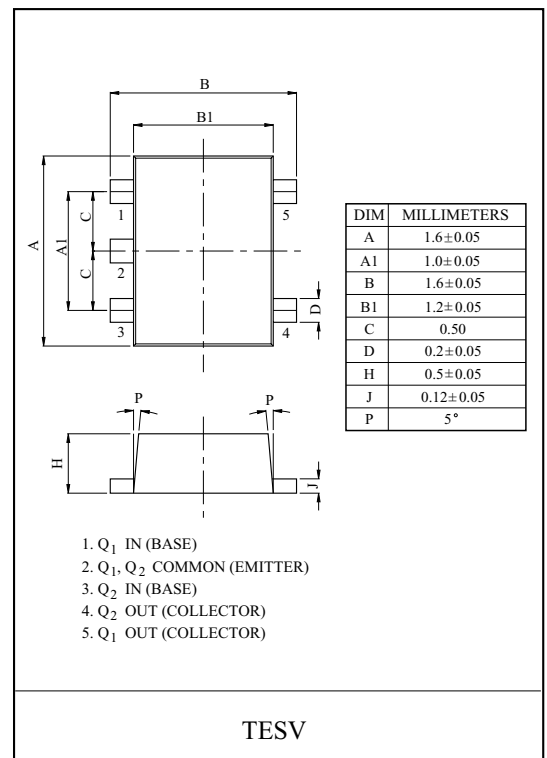
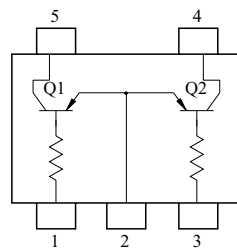
FEATURES

- 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) KRA560E-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 Rating.

ELECTRICAL CHARACTERISTICS (Ta=25 °C)

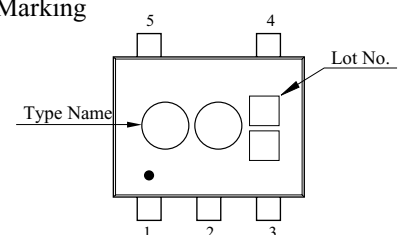
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I _{CBO}	V _{CB} =-50V, I _E =0	-	-	-100	nA
Emitter Cut-off Current	I _{EBO}	V _{EB} =-5V, I _C =0	-	-	-100	nA
DC Current Gain	h _{FE}	V _{CE} =-5V, I _C =-1mA	300	-	-	
Collector-Emitter Saturation Voltage	V _{CE(sat)}	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	KRA560E	R _i	3.29	4.7	6.11	kΩ
	KRA561E		7	10	13	
	KRA562E		70	100	130	
	KRA563E		15.4	22	28.6	
	KRA564E		32.9	47	61.1	

Note : * Characteristic of transistor only.

MARK SPEC

TYPE	KRA560E	KRA561E	KRA562E	KRA563E	KRA564E
MARK	PK	PM	PN	PO	PP

Marking

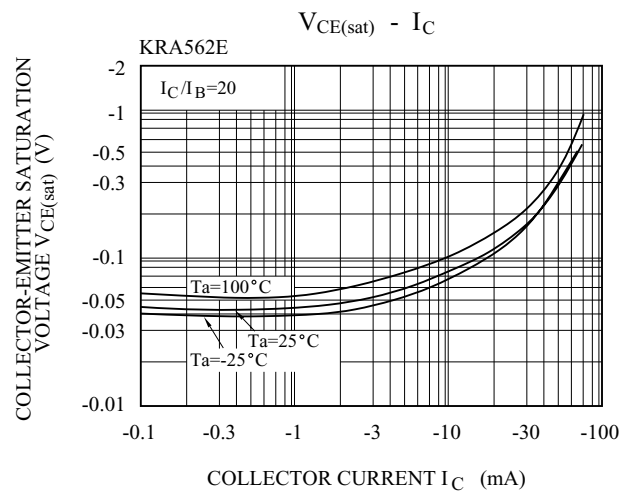
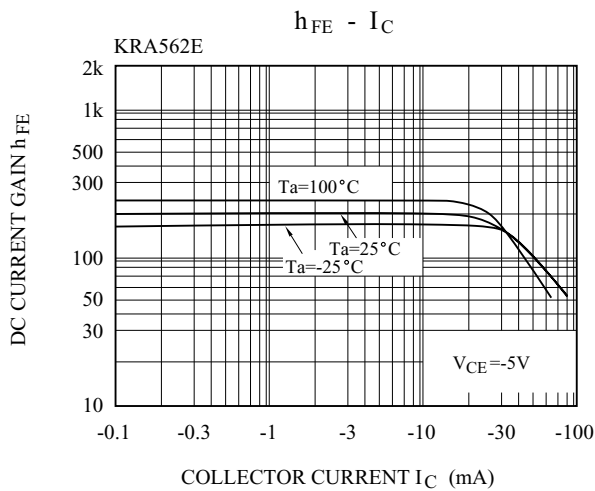
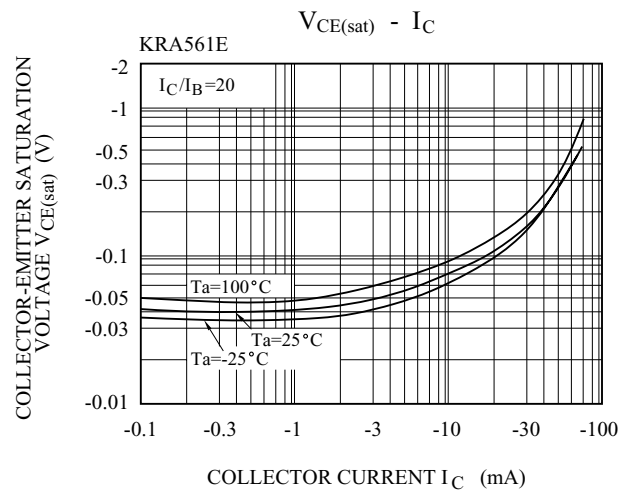
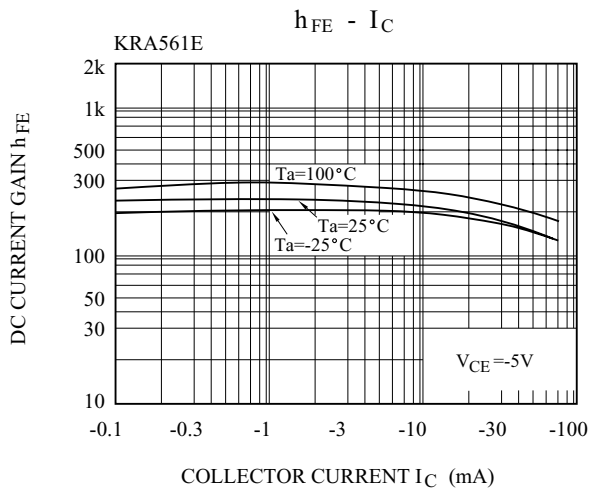
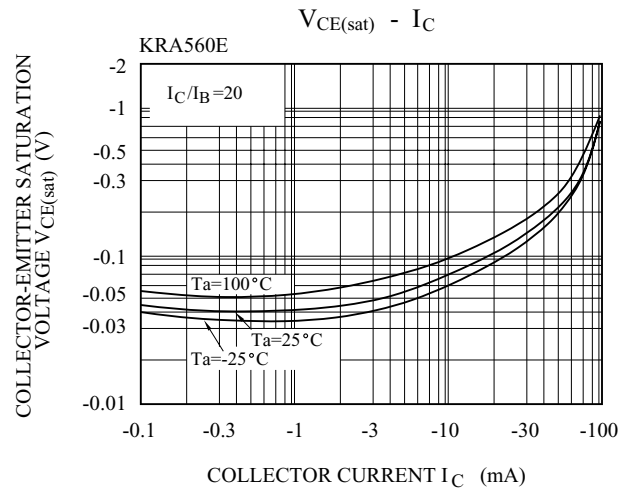
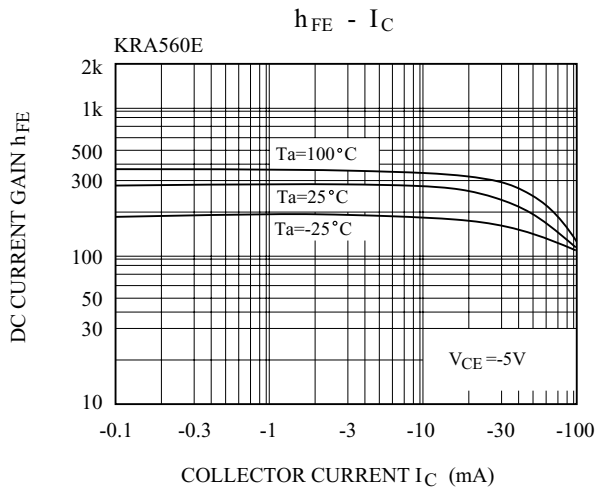


KRA560E~KRA564E

ELECTRICAL CHARACTERISTICS (Ta=25)

CHARACTERISTIC			SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Switching Time	Rise Time	KRA560E	t _r	V _O =-5V V _{IN} =-5V R _L =1kΩ	-	0.2	-	μs
		KRA561E			-	0.065	-	
		KRA562E			-	0.4	-	
		KRA563E			-	0.1	-	
		KRA564E			-	0.15	-	
	Storage Time	KRA560E	t _{stg}		-	2.0	-	
		KRA561E			-	1.7	-	
		KRA562E			-	3.0	-	
		KRA563E			-	2.0	-	
		KRA564E			-	1.5	-	
	Fall Time	KRA560E	t _f		-	0.3	-	
		KRA561E			-	0.3	-	
		KRA562E			-	1.7	-	
		KRA563E			-	0.8	-	
		KRA564E			-	1.5	-	

KRA560E~KRA564E



KRA560E~KRA564E

