

KEC

SEMICONDUCTOR
TECHNICAL DATA

KRA730U~KRA734U

EPITAXIAL PLANAR PNP TRANSISTOR

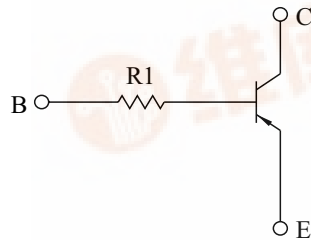
SWITCHING APPLICATION.

INTERFACE CIRCUIT AND DRIVER CIRCUIT APPLICATION.

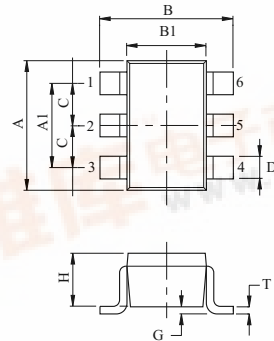
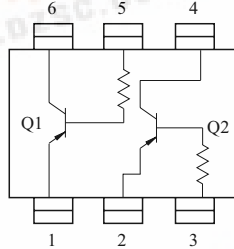
FEATURES

- 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)



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 EMITTER
2. Q₂ EMITTER
3. Q₂ BASE
4. Q₂ COLLECTOR
5. Q₁ BASE
6. Q₁ COLLECTOR

US6

MAXIMUM RATING (Ta=25℃)

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	℃
Storage Temperature Range	T _{stg}	-55 ~ 150	℃

* Total Rating.

ELECTRICAL CHARACTERISTICS (Ta=25℃)

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	KRA730U	R ₁	-	4.7	-	kΩ
	KRA731U		-	10	-	
	KRA732U		-	100	-	
	KRA733U		-	22	-	
	KRA734U		-	47	-	

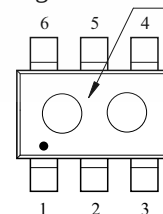
Note : * Characteristic of transistor only.

MARK SPEC

TYPE	KRA730U	KRA731U	KRA732U	KRA733U	KRA734U
MARK	JK	JM	JN	JO	JP

Marking

Type Name

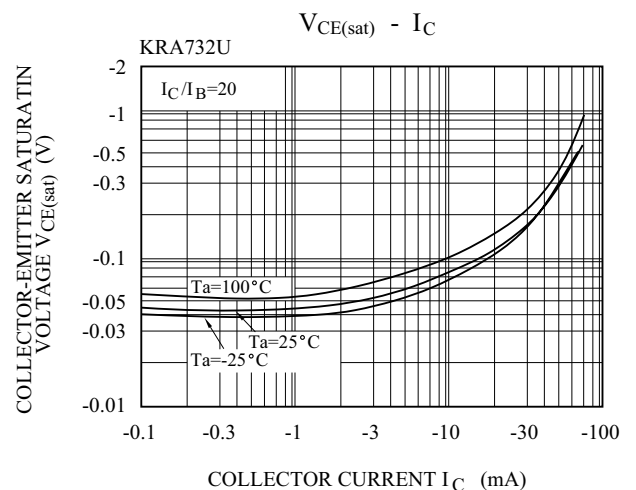
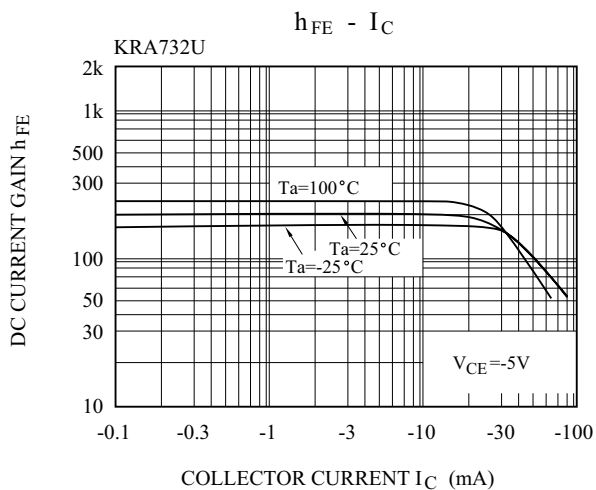
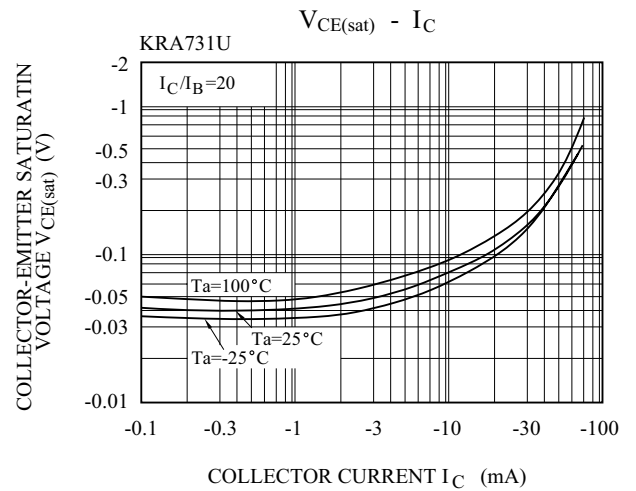
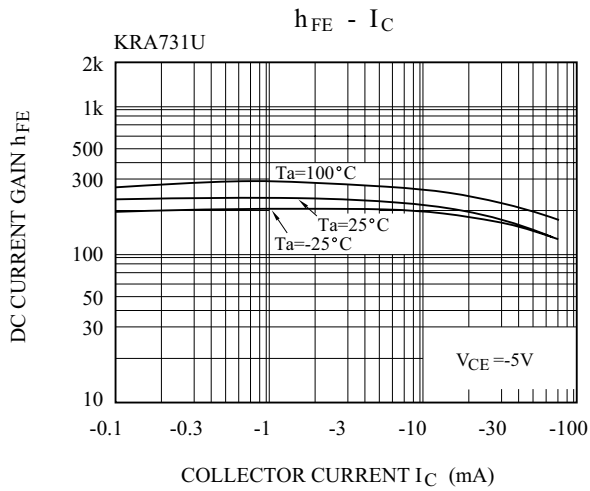
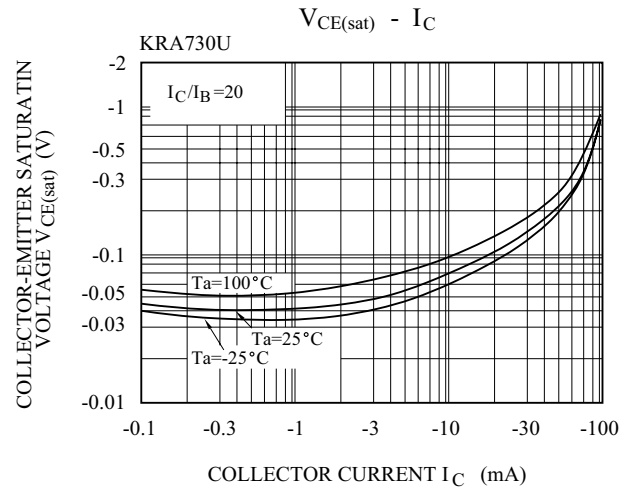
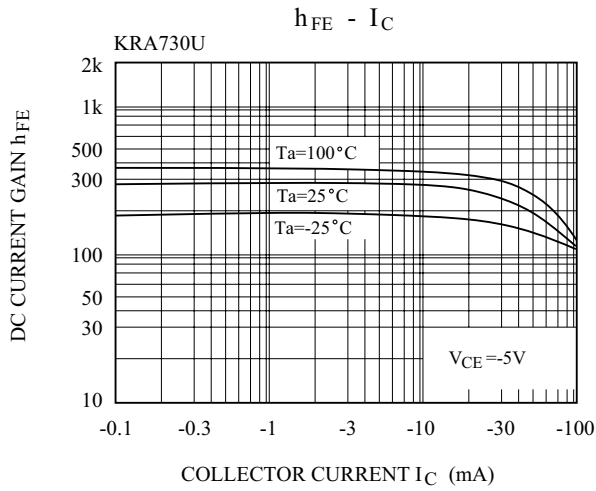


KRA730U~KRA734U

ELECTRICAL CHARACTERISTICS (Ta=25 °C)

CHARACTERISTIC			SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Switching Time	Rise Time	KRA730U	t _r	V _O =-5V V _{IN} =-5V R _L =1k Ω	-	0.2	-	μS
		KRA731U			-	0.065	-	
		KRA732U			-	0.4	-	
		KRA733U			-	0.1	-	
		KRA734U			-	0.15	-	
	Storage Time	KRA730U	t _{stg}		-	2.0	-	
		KRA731U			-	1.7	-	
		KRA732U			-	3.0	-	
		KRA733U			-	2.0	-	
		KRA734U			-	1.5	-	
	Fall Time	KRA730U	t _f		-	0.3	-	
		KRA731U			-	0.3	-	
		KRA732U			-	1.7	-	
		KRA733U			-	0.8	-	
		KRA734U			-	1.5	-	

KRA730U~KRA734U



KRA730U~KRA734U

