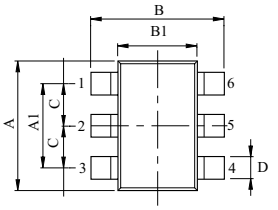
KRA730U~KRA734U

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.

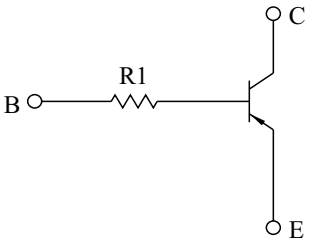


DIM	MILLIMETERS
A	2.00±0.20
A1	1.3±0.1
B	2.1±0.1
B1	1.25±0.1
C	0.65
D	0.2+0.10/-0.05
G	0-0.1
H	0.9±0.1
T	0.15+0.1/-0.05

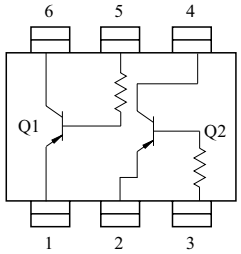
1. Q_1 EMITTER
2. Q_2 EMITTER
3. Q_2 BASE
4. Q_2 COLLECTOR
5. Q_1 BASE
6. Q_1 COLLECTOR

US6

EQUIVALENT CIRCUIT



EQUIVALENT CIRCUIT (TOP VIEW)



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 TemperatureRange	T_{stg}	-55 ~150	℃

* Total Rating.

ELECTRICAL CHARACTERISTICS (Ta=25℃)

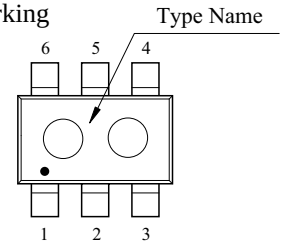
CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current		I_{CBO}	V_{CB}=-50V, I_E=0	-	-	-100	nA
Emitter Cut-off Current		I_{EBO}	V_{EB}=-5V, I_C=0	-	-	-100	nA
DC Current Gain		h_{FE}	V_{CE}=-5V, I_C=-1mA	120	-	-	
Collector-Emitter Saturation Voltage		$V_{CE(sat)}$	I_C=-10mA, 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

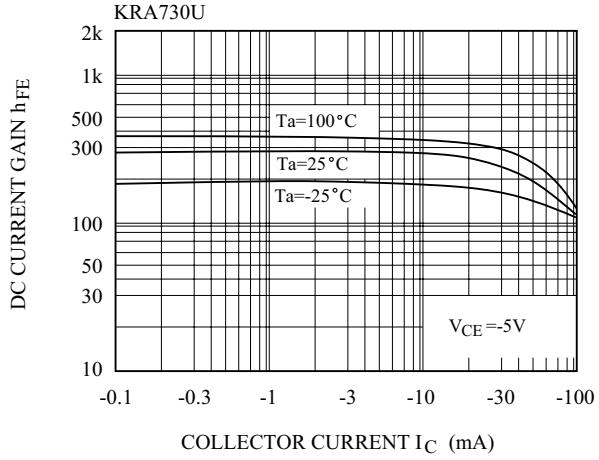


ELECTRICAL CHARACTERISTICS (Ta=25℃)

CHARACTERISTIC			SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Switching Time	Rise Time	KRA730U	t_r	V_O=-5V V_{IN}=-5V R_L=1kΩ	-	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	-	

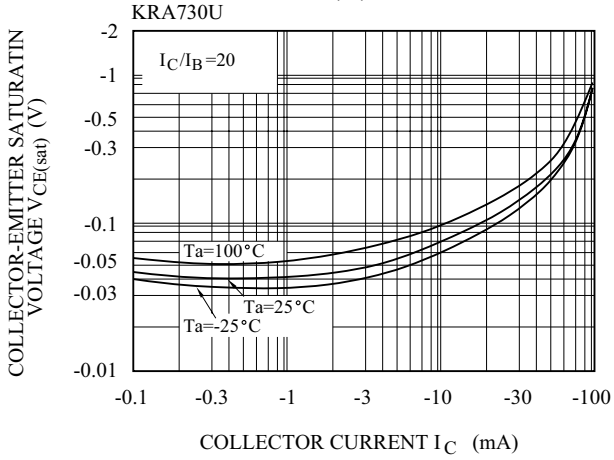
h_{FE} - I_C

KRA730U



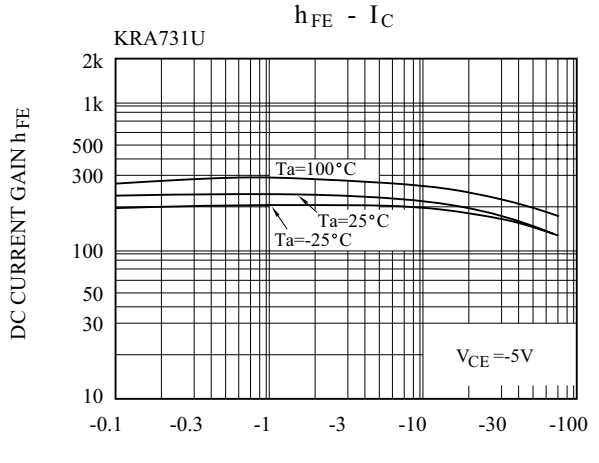
$V_{CE(sat)}$ - I_C

KRA730U



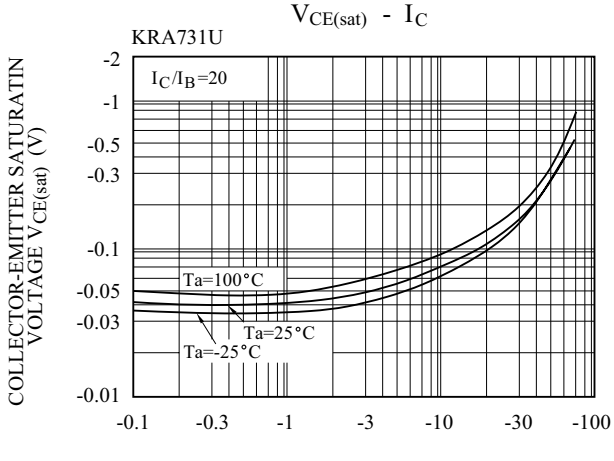
h_{FE} - I_C

KRA731U



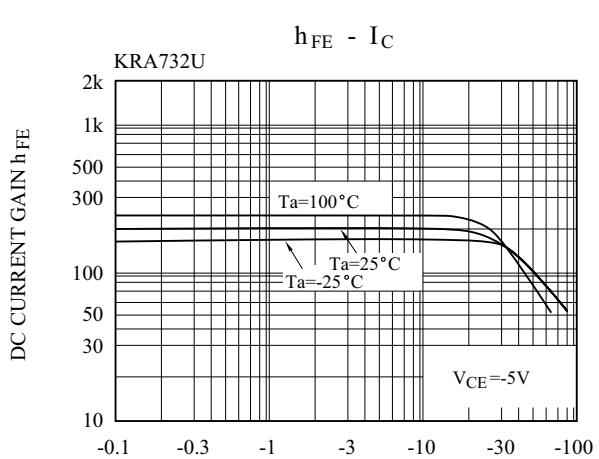
$V_{CE(sat)}$ - I_C

KRA731U



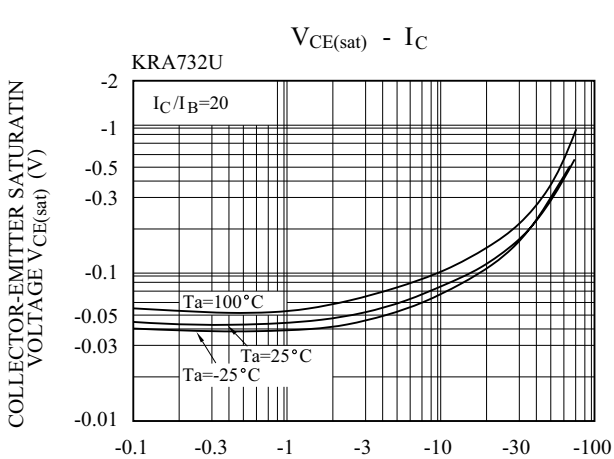
h_{FE} - I_C

KRA732U

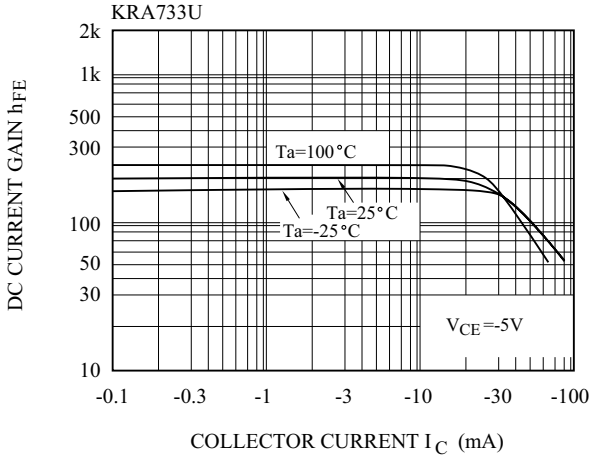


$V_{CE(sat)}$ - I_C

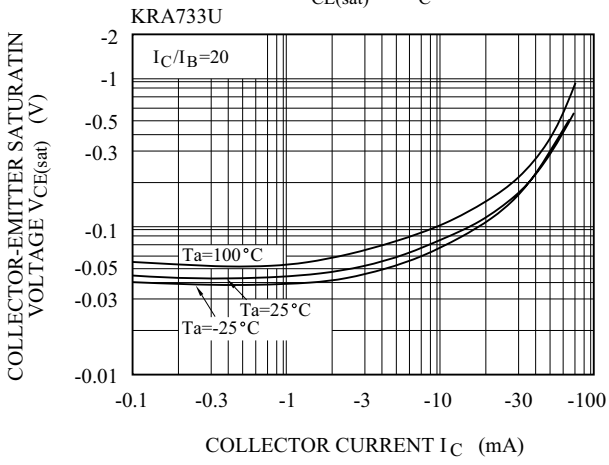
KRA732U



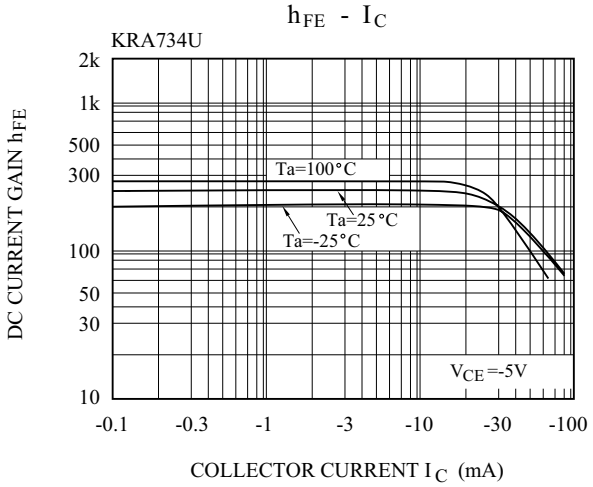
h_{FE} - I_C



$V_{CE(sat)}$ - I_C



h_{FE} - I_C



$V_{CE(sat)}$ - I_C