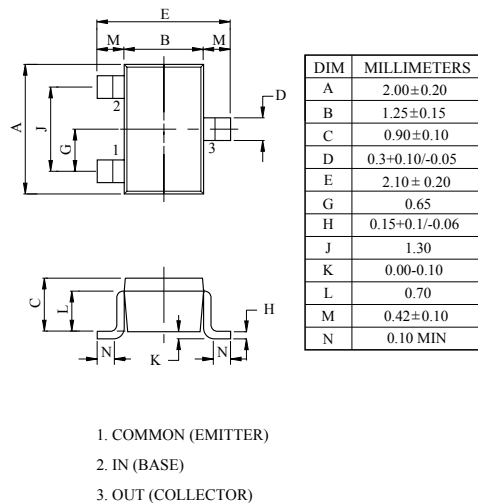
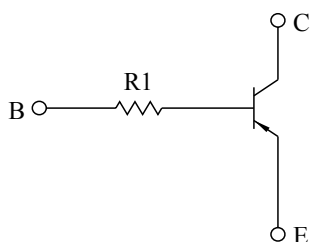


SWITCHING APPLICATION.
INTERFACE CIRCUIT AND DRIVER CIRCUIT APPLICATION.

FEATURES

- With Built-in Bias Resistors.
- Simplify Circuit Design.
- Reduce a Quantity of Parts and Manufacturing Process.
- High Packing Density.

EQUIVALENT CIRCUIT



USM

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	100	mW
Junction Temperature	T_j	150	℃
Storage Temperature Range	T_{stg}	-55 ~ 150	℃

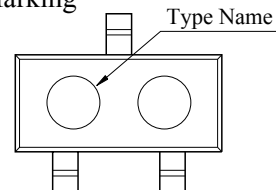
ELECTRICAL CHARACTERISTICS (Ta=25℃)

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	KRA310	R_1	-	4.7	-	kΩ
	KRA311		-	10	-	
	KRA312		-	100	-	
	KRA313		-	22	-	
	KRA314		-	47	-	

MARK SPEC

TYPE	KRA310	KRA311	KRA312	KRA313	KRA314
MARK	PK	PM	PN	PO	PP

Marking

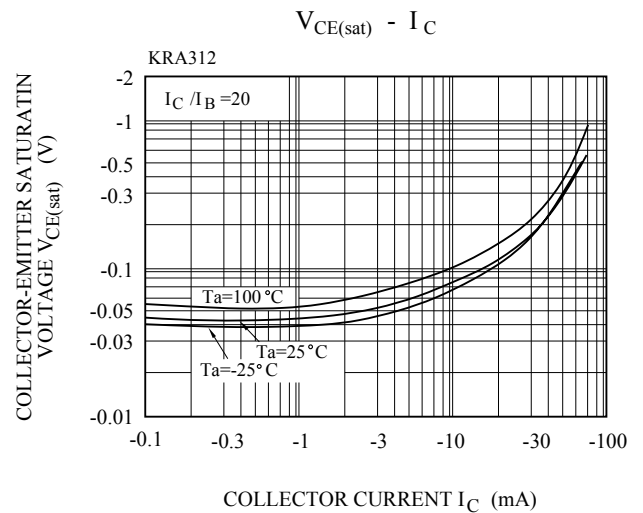
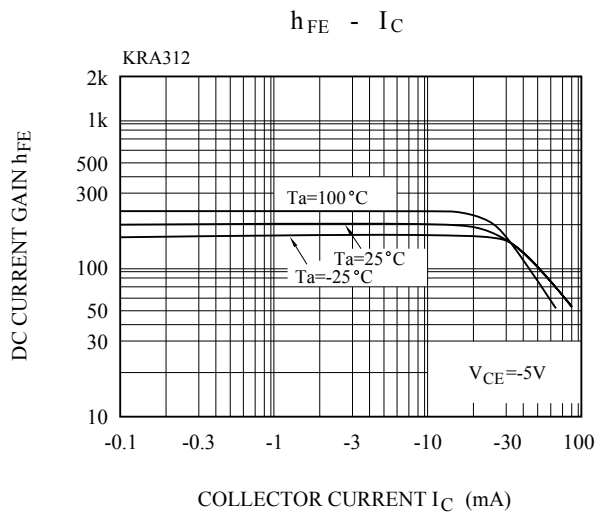
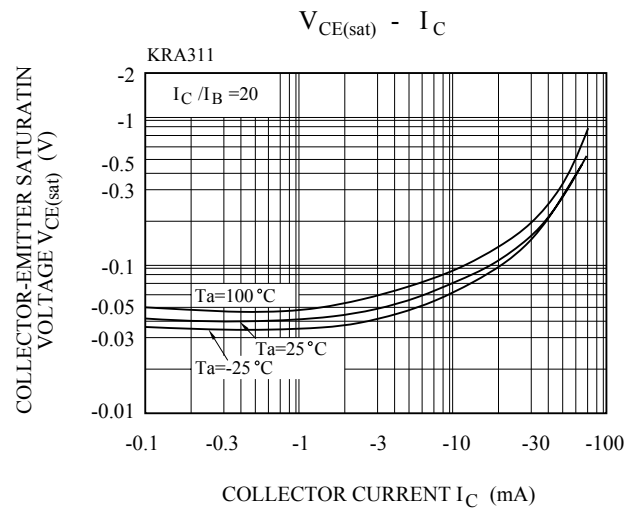
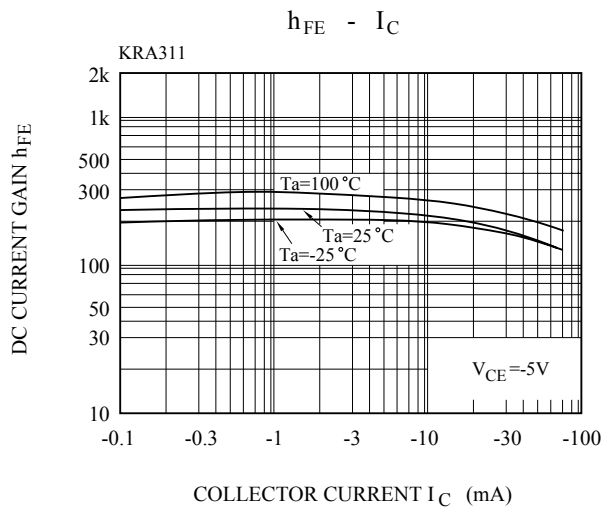
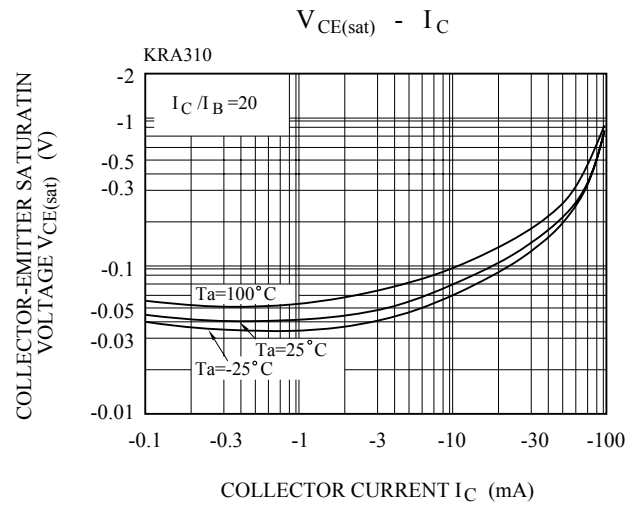
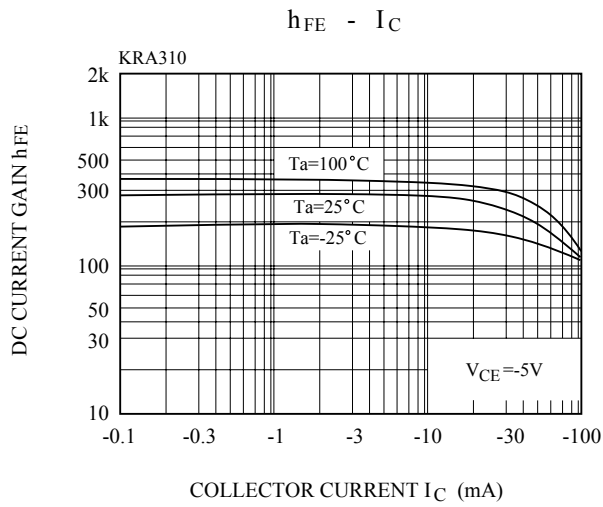


KRA310~KRA314

ELECTRICAL CHARACTERISTICS (Ta=25℃)

CHARACTERISTIC			SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Switching Time	Rise Time	KRA310	t_r	$V_O=-5V$ $V_{IN}=-5V$ $R_L=1k\Omega$	-	0.2	-	μS
		KRA311			-	0.065	-	
		KRA312			-	0.4	-	
		KRA313			-	0.1	-	
		KRA314			-	0.15	-	
	Storage Time	KRA310	t_{stg}		-	2.0	-	
		KRA311			-	1.7	-	
		KRA312			-	3.0	-	
		KRA313			-	2.0	-	
		KRA314			-	1.5	-	
	Fall Time	KRA310	t_f		-	0.3	-	
		KRA311			-	0.3	-	
		KRA312			-	1.7	-	
		KRA313			-	0.8	-	
		KRA314			-	1.5	-	

KRA310~314



KRA310~314

