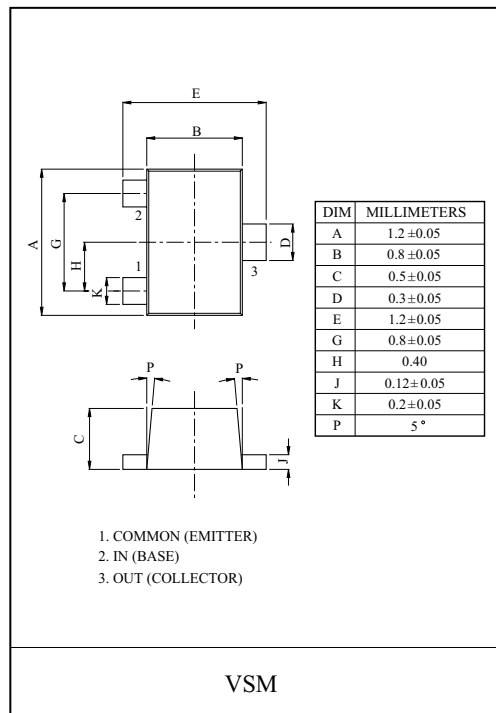
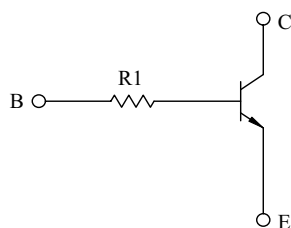


SWITCHING APPLICATION.  
INTERFACE CIRCUIT AND DRIVER CIRCUIT APPLICATION.

#### FEATURES

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

#### EQUIVALENT CIRCUIT



#### 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	$P_C$	100	mW
Junction Temperature	$T_j$	150	°C
Storage Temperature Range	$T_{stg}$	-55 ~ 150	°C

#### ELECTRICAL CHARACTERISTICS (Ta=25 °C)

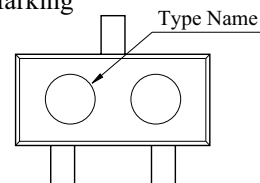
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT	
Collector Cut-off Current	$I_{CBO}$	$V_{CB}=50V, I_E=0$	-	-	100	nA	
Emitter Cut-off Current	$I_{EBO}$	$V_{EB}=5V, I_C=0$	-	-	100	nA	
DC Current Gain	$h_{FE}$	$V_{CE}=5V, I_C=1mA$	120	-	-		
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=10mA, I_B=0.5mA$	-	0.1	0.3	V	
Transition Frequency	$f_T^*$	$V_{CE}=10V, I_C=5mA$	-	250	-	MHz	
Input Resistor	KRC410V	$R_1$		-	4.7	-	kΩ
	KRC411V			-	10	-	
	KRC412V			-	100	-	
	KRC413V			-	22	-	
	KRC414V			-	47	-	

Note : \* Characteristic of Transistor Only.

#### MARK SPEC

TYPE	KRC410V	KRC411V	KRC412V	KRC413V	KRC414V
MARK	NK	NM	NN	NO	NP

#### Marking

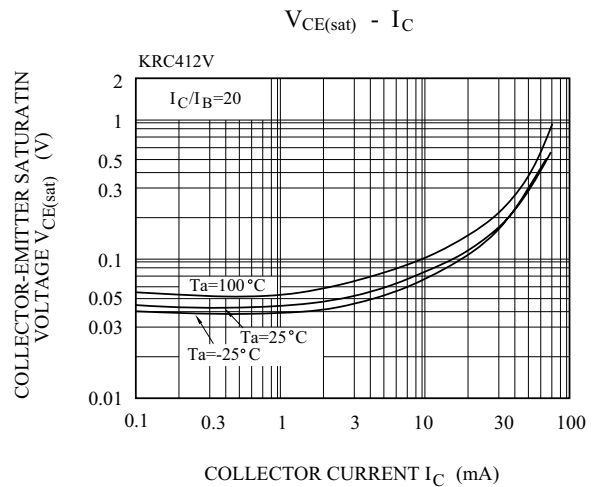
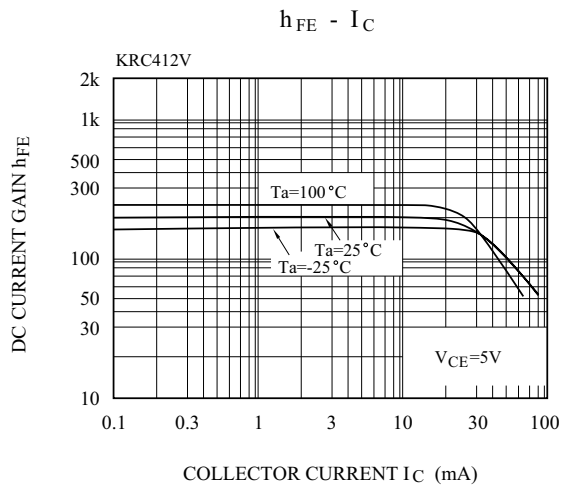
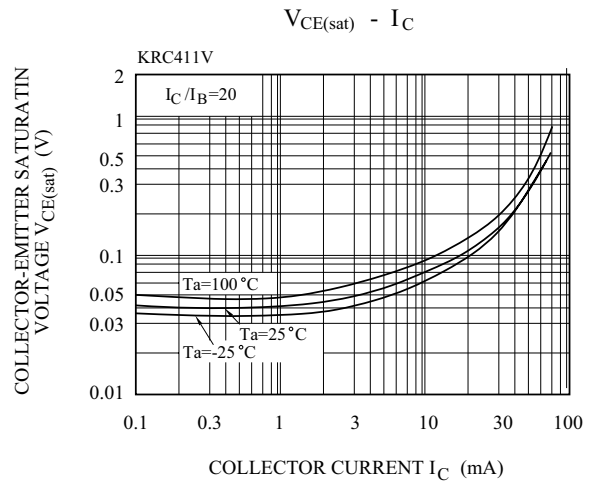
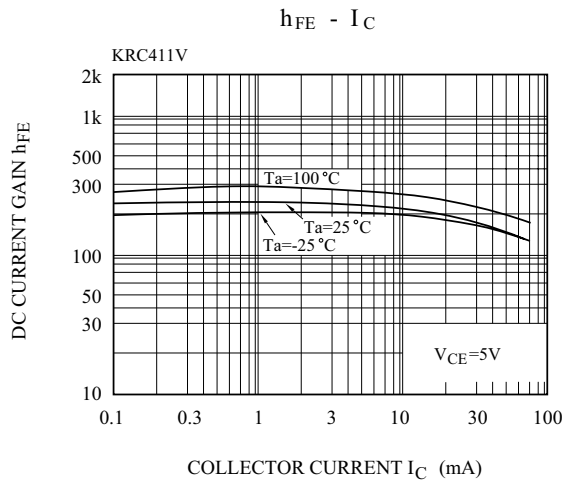
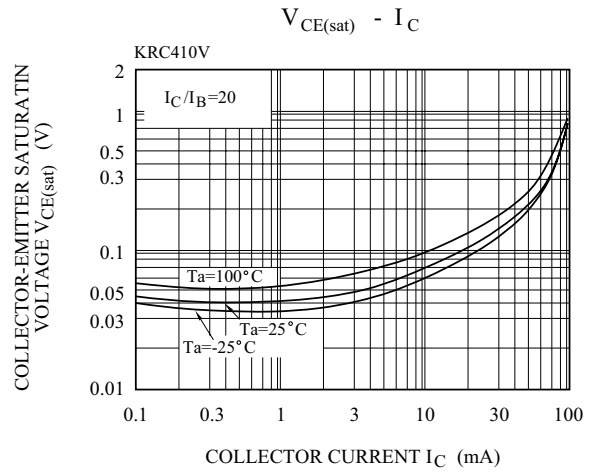
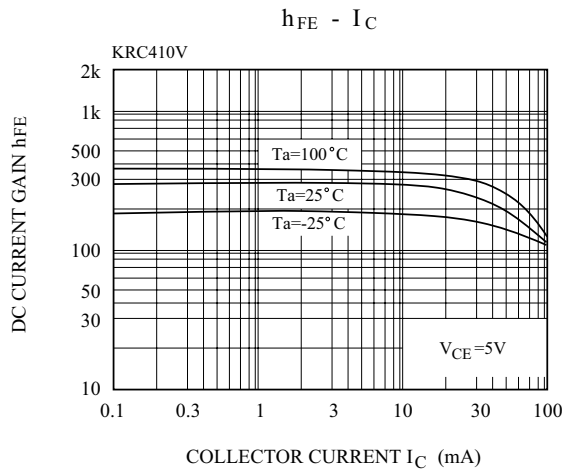


# KRC410V~KRC414V

## ELECTRICAL CHARACTERISTICS (Ta=25 °C)

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT	
Switching Time	Rise Time	KRC410V	V <sub>O</sub> =5V V <sub>IN</sub> =5V R <sub>L</sub> =1k Ω	-	0.025	-	μS	
		KRC411V		-	0.03	-		
		KRC412V		-	0.3	-		
		KRC413V		-	0.06	-		
		KRC414V		-	0.11	-		
	Storage Time	KRC410V		t <sub>stg</sub>	-	3.0		-
		KRC411V			-	2.0		-
		KRC412V			-	6.0		-
		KRC413V			-	4.0		-
		KRC414V			-	5.0		-
	Fall Time	KRC410V		t <sub>f</sub>	-	0.2		-
		KRC411V			-	0.12		-
		KRC412V			-	2.0		-
		KRC413V			-	0.9		-
		KRC414V			-	1.4		-

# KRC410V~KRC414V



# KRC410V~KRC414V

