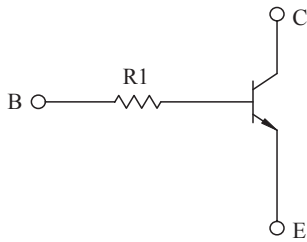


**SWITCHING APPLICATION.
INTERFACE CIRCUIT AND DRIVER CIRCUIT APPLICATION.**

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) KRC410V-RTK/HU

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	-55 ~ 150	°C
Storage Temperature Range	T_{stg}	-55 ~ 150	°C

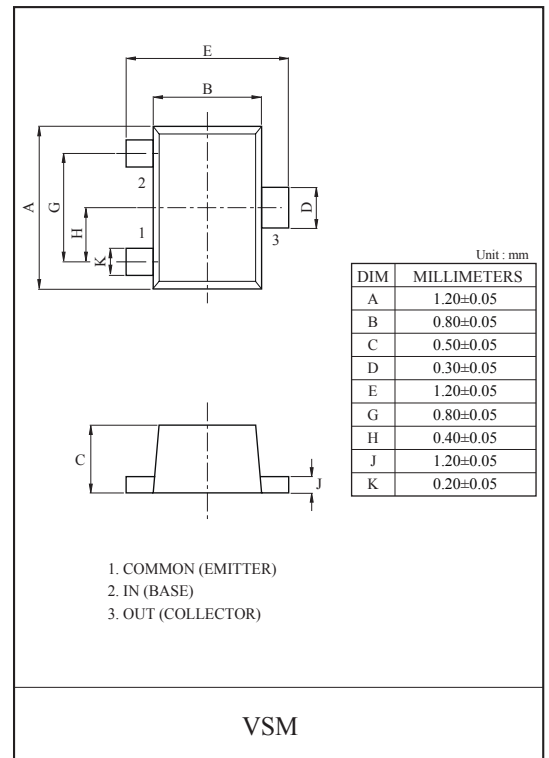
ELECTRICAL CHARACTERISTICS (Ta=25°C)

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		3.29	4.7	6.11	kΩ
	KRC411V			7	10	13	
	KRC412V			70	100	130	
	KRC413V			15.4	22	28.6	
	KRC414V			32.9	47	61.1	

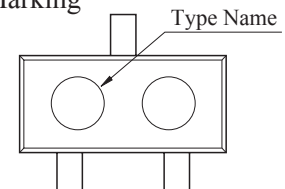
Note : * Characteristic of Transistor Only.

MARK SPEC

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



Marking

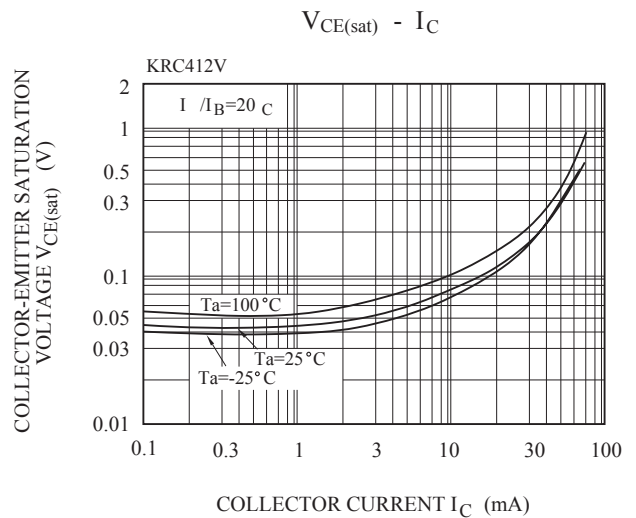
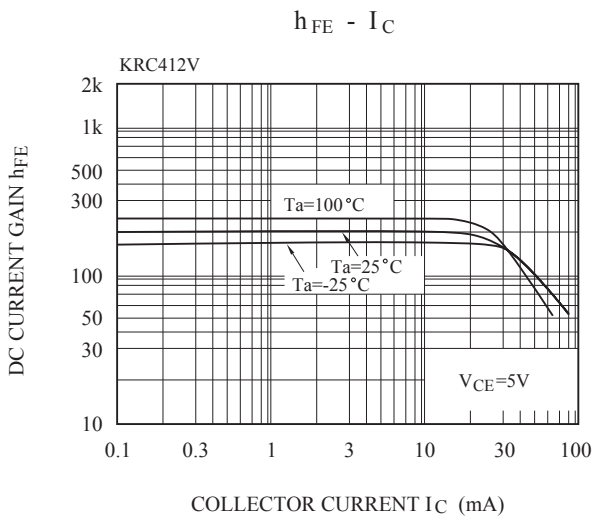
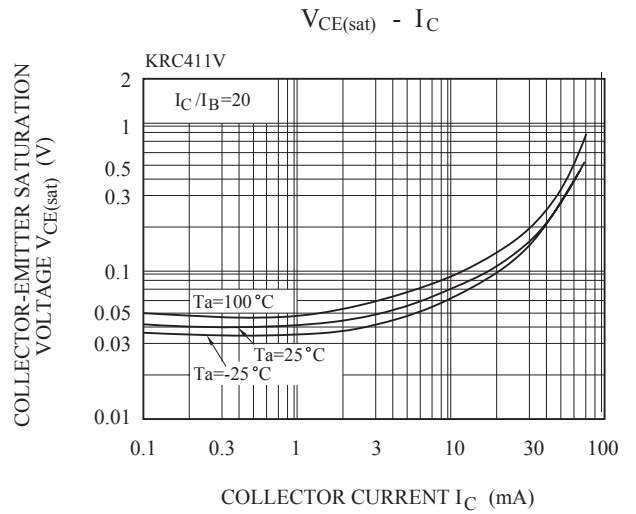
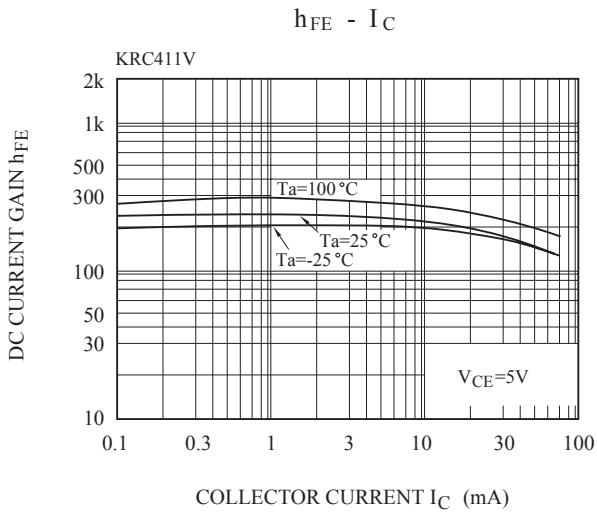
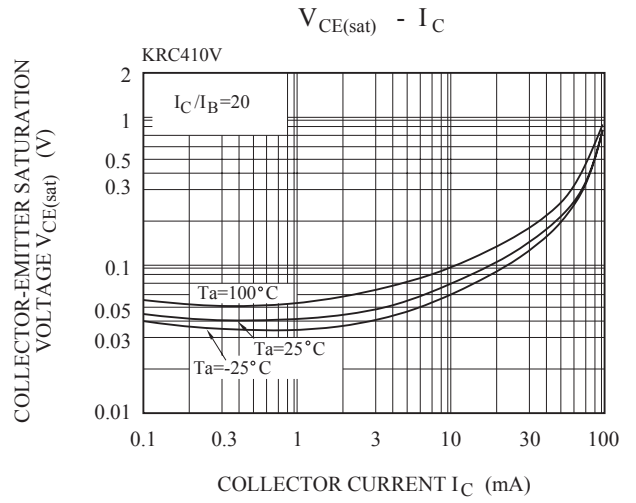
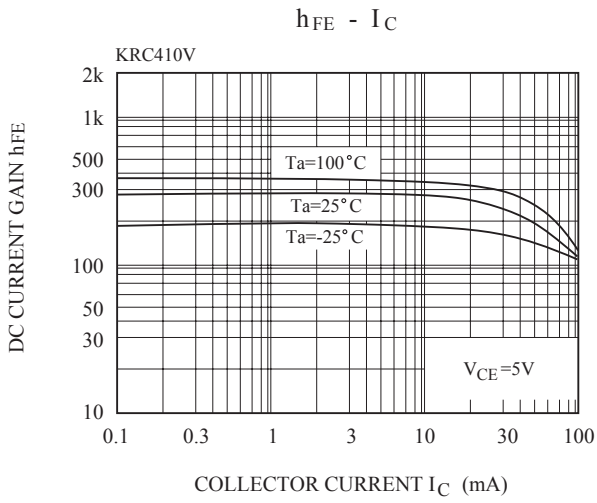


KRC410V~KRC414V

ELECTRICAL CHARACTERISTICS (Ta=25°C)

CHARACTERISTIC			SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Switching Time	Rise Time	KRC410V	t_r	$V_O=5V$ $V_{IN}=5V$ $R_L=1k\Omega$	-	0.025	-	μS
		KRC411V			-	0.03	-	
		KRC412V			-	0.3	-	
		KRC413V			-	0.06	-	
		KRC414V			-	0.11	-	
	Storage Time	KRC410V	t_{stg}		-	3.0	-	
		KRC411V			-	2.0	-	
		KRC412V			-	6.0	-	
		KRC413V			-	4.0	-	
		KRC414V			-	5.0	-	
	Fall Time	KRC410V	t_f		-	0.2	-	
		KRC411V			-	0.12	-	
		KRC412V			-	2.0	-	
		KRC413V			-	0.9	-	
		KRC414V			-	1.4	-	

KRC410V~KRC414V



KRC410V~KRC414V

