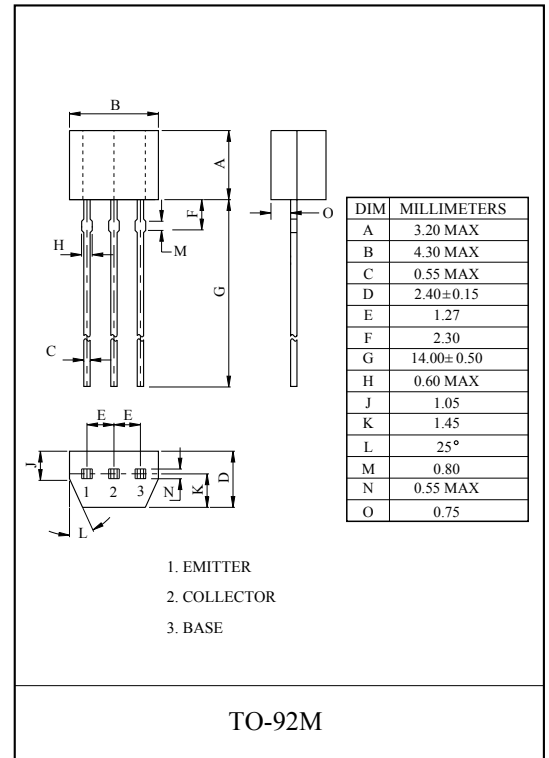
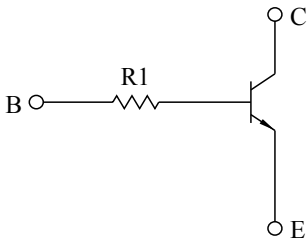


SWITCHING APPLICATION.  
INTERFACE CIRCUIT AND DRIVER CIRCUIT APPLICATION.

#### FEATURES

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

#### 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
Collector Power Dissipation	$P_C$	400	mW
Junction Temperature	$T_j$	150	°C
Storage Temperature Range	$T_{stg}$	-55 ~ 150	°C

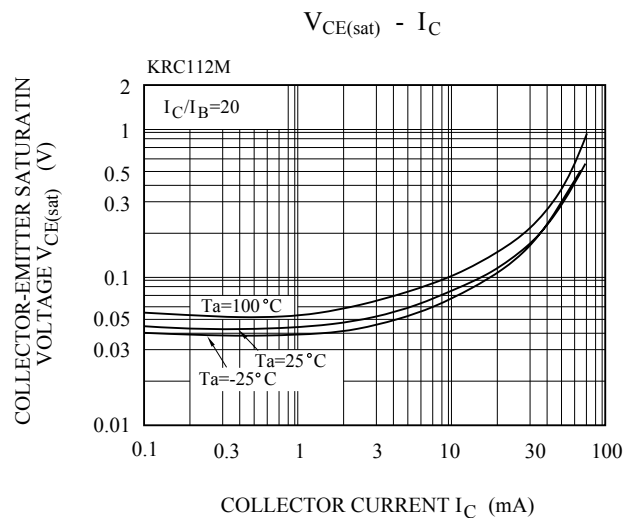
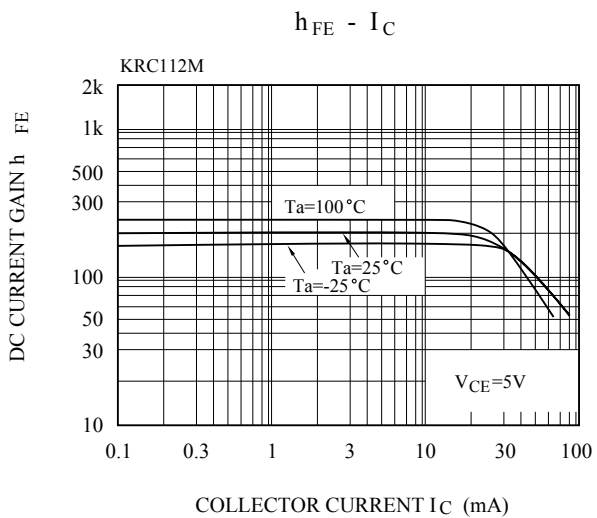
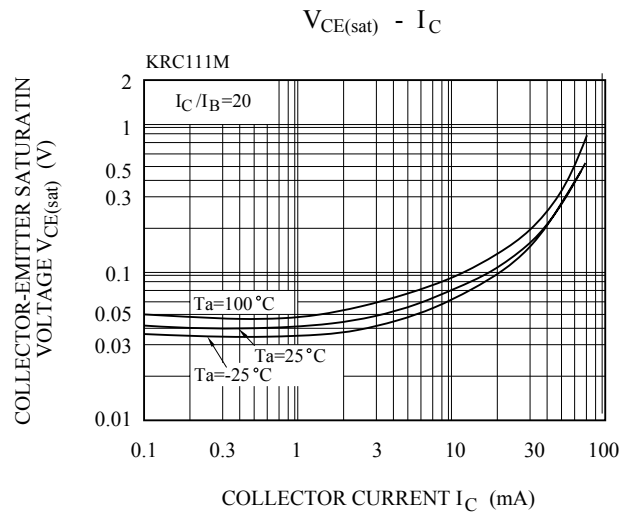
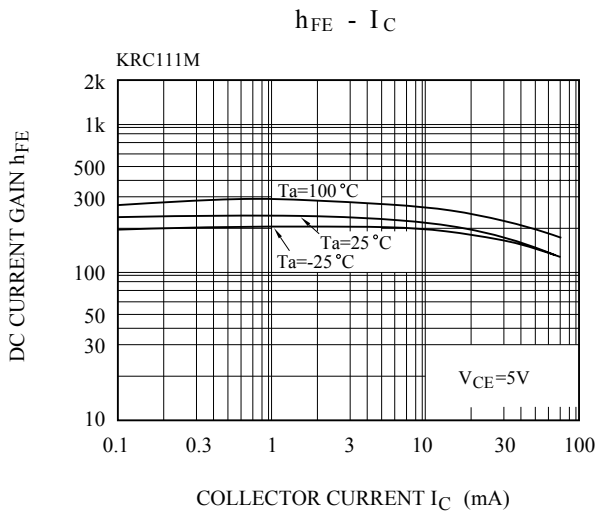
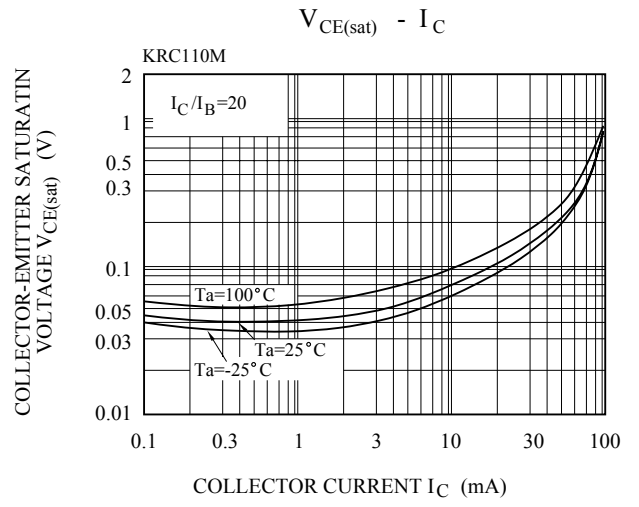
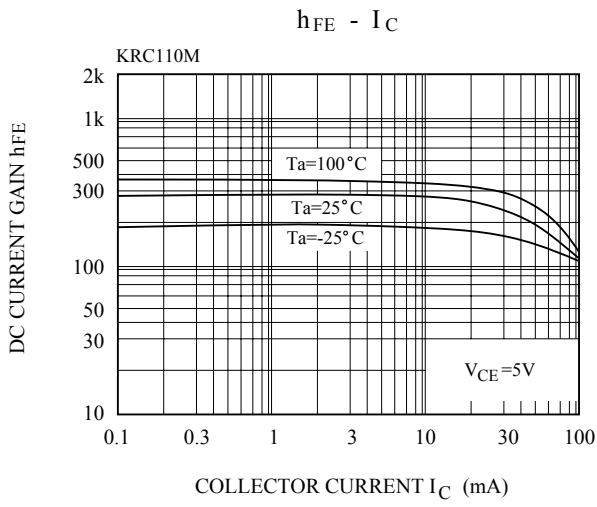
# KRC110M~KRC114M

## 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		KRC110M	$R_1$		-	4.7	-	k $\Omega$	
		KRC111M			-	10	-		
		KRC112M			-	100	-		
		KRC113M			-	22	-		
		KRC114M			-	47	-		
Switching Time	Rise Time	KRC110M	$t_r$	$V_O=5V$ $V_{IN}=5V$ $R_L=1k\Omega$	-	0.025	-	$\mu S$	
		KRC111M			-	0.03	-		
		KRC112M			-	0.3	-		
		KRC113M			-	0.06	-		
		KRC114M			-	0.11	-		
	Storage Time	KRC110M			$t_{stg}$	-	3.0		-
		KRC111M			-	2.0	-		
		KRC112M			-	6.0	-		
		KRC113M			-	4.0	-		
		KRC114M			-	5.0	-		
	Fall Time	KRC110M			$t_f$	-	0.2		-
		KRC111M			-	0.12	-		
		KRC112M			-	2.0	-		
		KRC113M			-	0.9	-		
		KRC114M			-	1.4	-		

Note : \* Characteristic of Transistor Only.

# KRC110M~KRC114M



# KRC110M~KRC114M

