

KEC

SEMICONDUCTOR
TECHNICAL DATA

KRA760E~KRA764E

EPITAXIAL PLANAR PNP TRANSISTOR

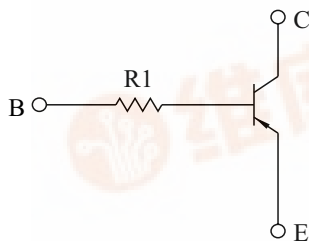
SWITCHING APPLICATION.

INTERFACE CIRCUIT AND DRIVER CIRCUIT APPLICATION.

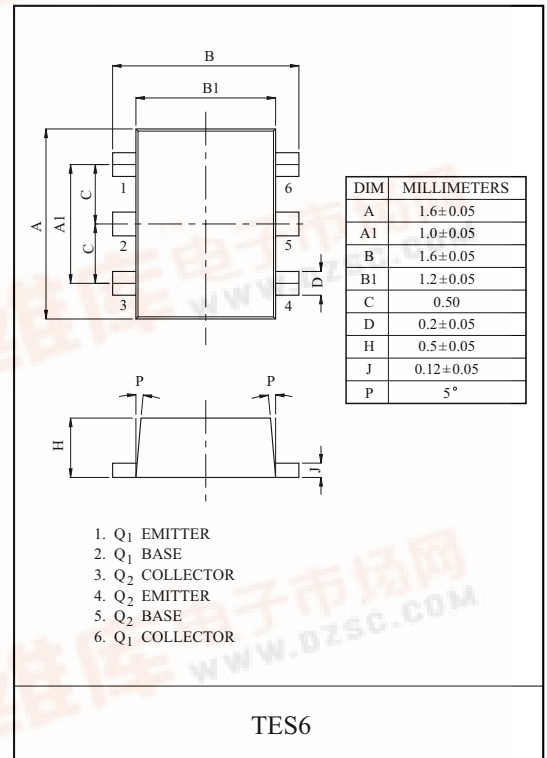
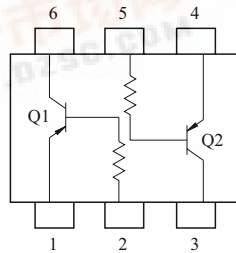
FEATURES

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

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 Temperature Range	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	KRA760E	R_1		-	4.7	-	kΩ
	KRA761E			-	10	-	
	KRA762E			-	100	-	
	KRA763E			-	22	-	
	KRA764E			-	47	-	

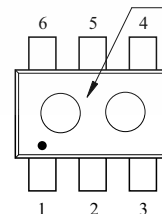
Note : * Characteristic of Transistor Only.

MARK SPEC

TYPE	KRA760E	KRA761E	KRA762E	KRA763E	KRA764E
MARK	PK	PM	PN	PO	PP

Marking

Type Name

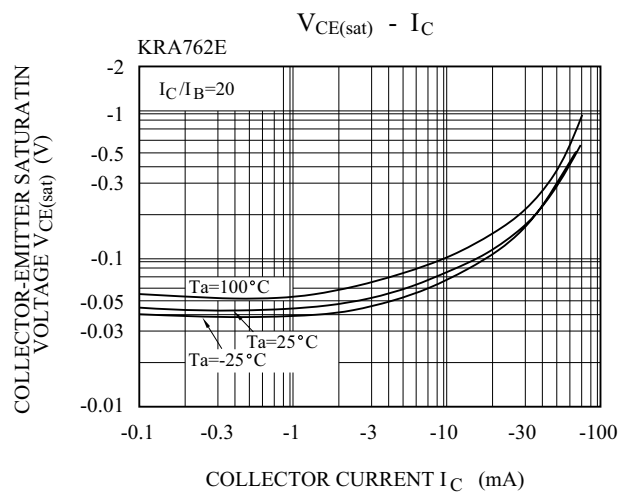
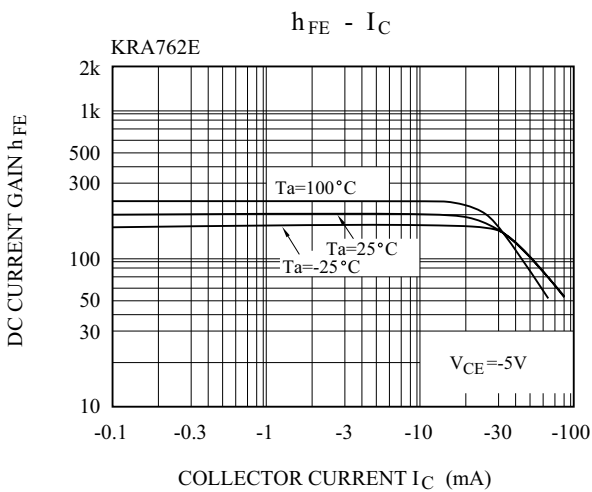
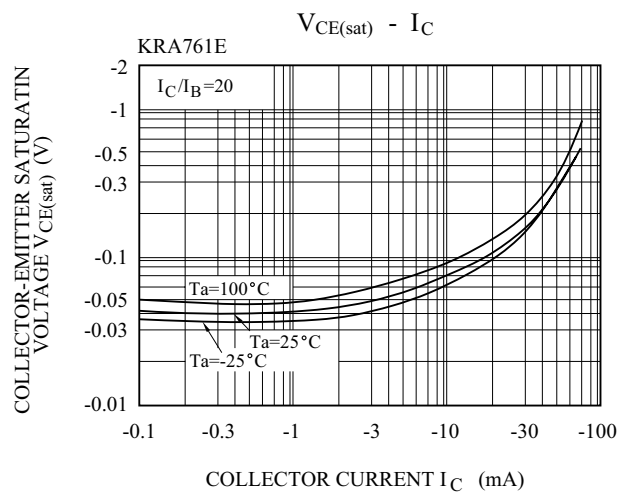
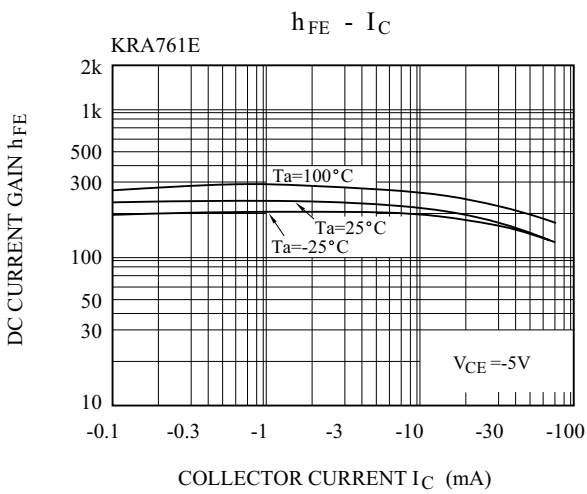
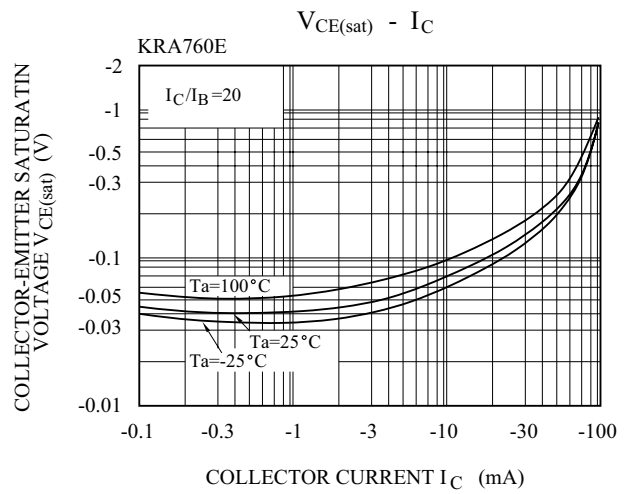
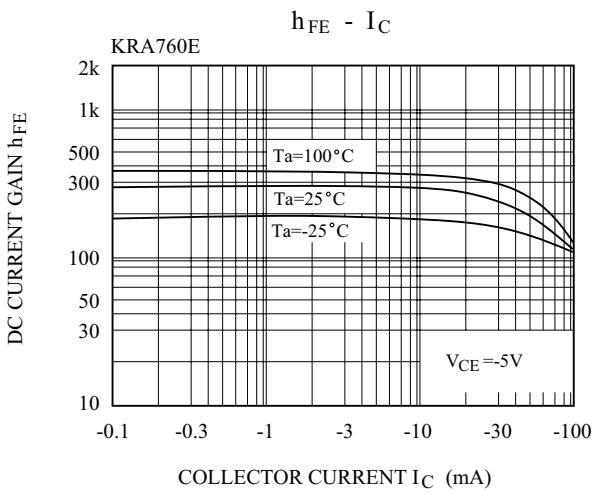


KRA760E~KRA764E

ELECTRICAL CHARACTERISTICS (Ta=25 °C)

CHARACTERISTIC			SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Switching Time	Rise Time	KRA760E	t _r	V _O =-5V V _{IN} =-5V R _L =1k Ω	-	0.2	-	μS
		KRA761E			-	0.065	-	
		KRA762E			-	0.4	-	
		KRA763E			-	0.1	-	
		KRA764E			-	0.15	-	
	Storage Time	KRA760E	t _{stg}		-	2.0	-	
		KRA761E			-	1.7	-	
		KRA762E			-	3.0	-	
		KRA763E			-	2.0	-	
		KRA764E			-	1.5	-	
	Fall Time	KRA760E	t _f		-	0.3	-	
		KRA761E			-	0.3	-	
		KRA762E			-	1.7	-	
		KRA763E			-	0.8	-	
		KRA764E			-	1.5	-	

KRA760E~KRA764E



KRA760E~KRA764E

