

KEC

SEMICONDUCTOR
TECHNICAL DATA

KRA560E~KRA564E

EPITAXIAL PLANAR PNP TRANSISTOR

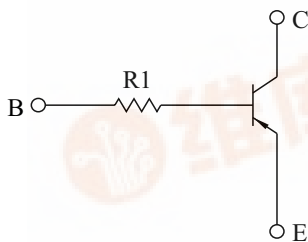
SWITCHING APPLICATION.

INTERFACE CIRCUIT AND DRIVER CIRCUIT APPLICATION.

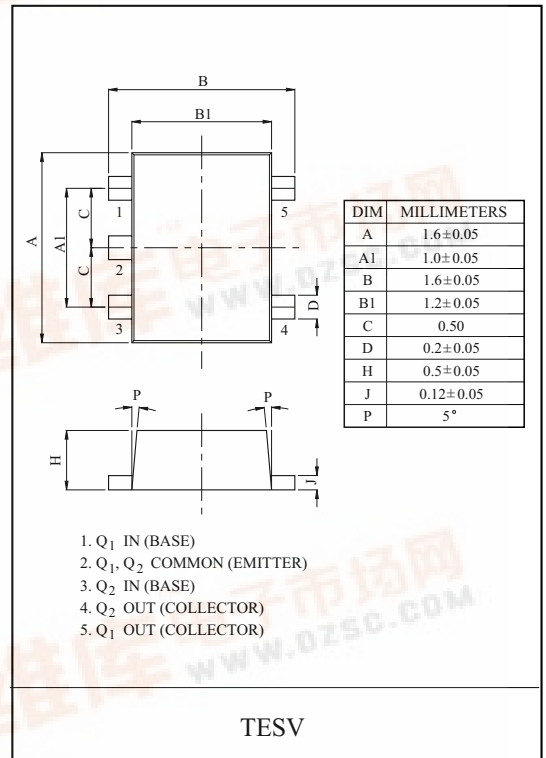
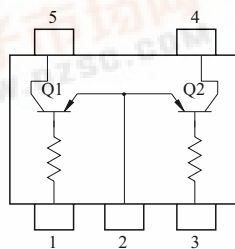
FEATURES

- 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	KRA560E	R ₁		-	4.7	-	kΩ
	KRA561E			-	10	-	
	KRA562E			-	100	-	
	KRA563E			-	22	-	
	KRA564E			-	47	-	

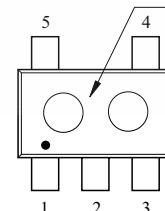
Note : * Characteristic of Transistor Only.

MARK SPEC

TYPE	KRA560E	KRA561E	KRA562E	KRA563E	KRA564E
MARK	PK	PM	PN	PO	PP

Marking

Type Name

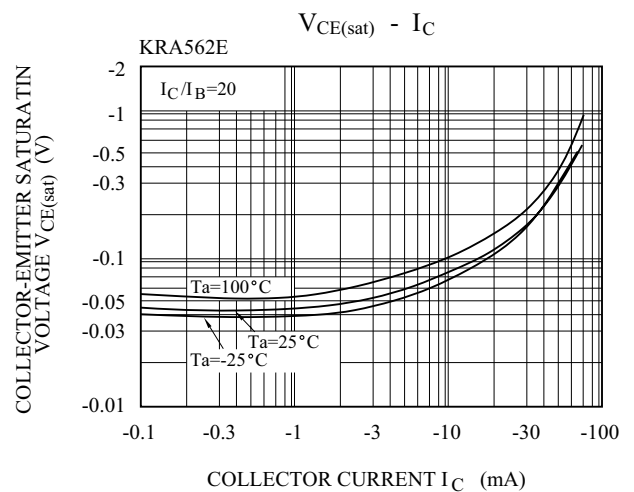
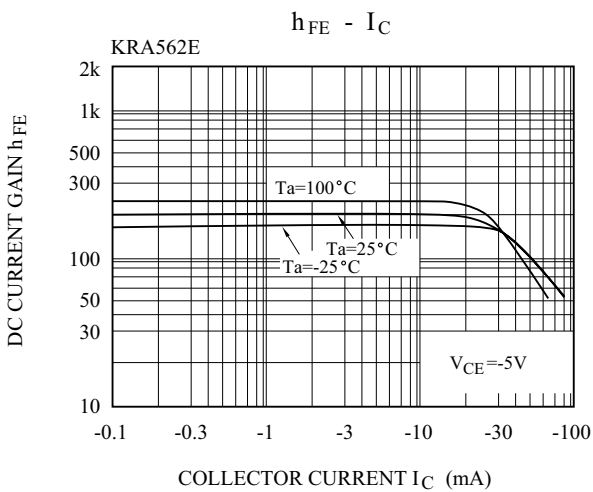
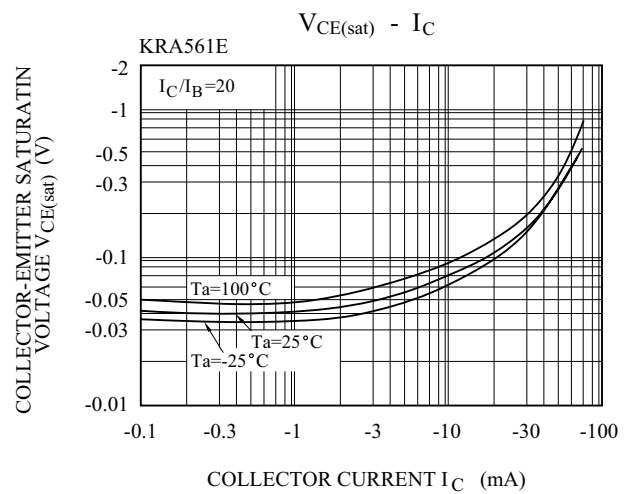
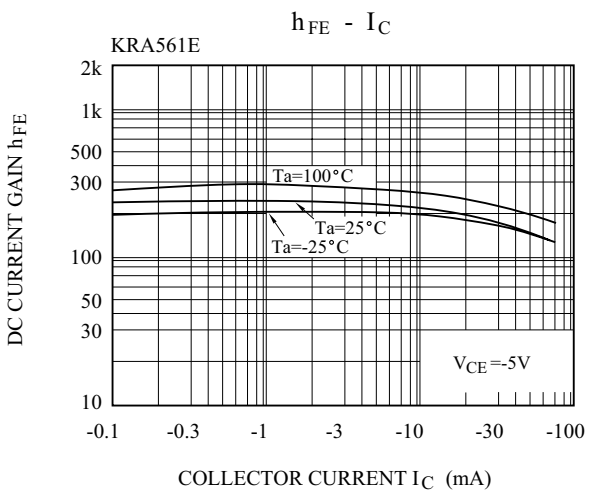
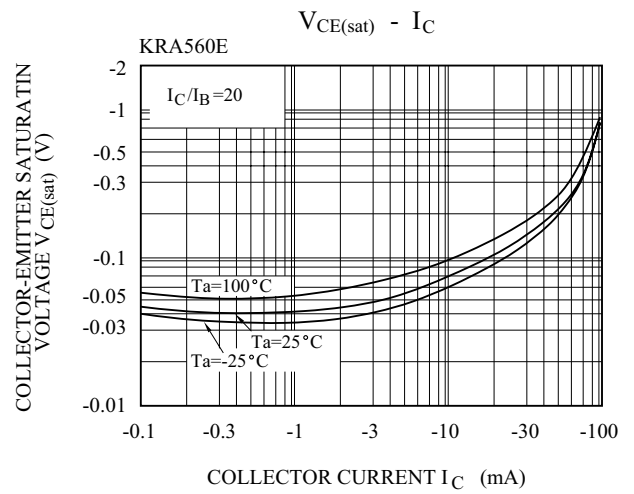
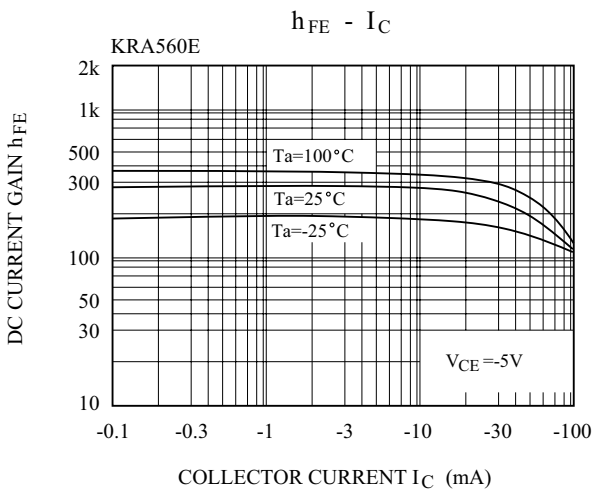


KRA560E~KRA564E

ELECTRICAL CHARACTERISTICS (Ta=25 °C)

CHARACTERISTIC			SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Switching Time	Rise Time	KRA560E	t _r	V _O =-5V V _{IN} =-5V R _L =1k Ω	-	0.2	-	μS
		KRA561E			-	0.065	-	
		KRA562E			-	0.4	-	
		KRA563E			-	0.1	-	
		KRA564E			-	0.15	-	
	Storage Time	KRA560E	t _{stg}		-	2.0	-	
		KRA561E			-	1.7	-	
		KRA562E			-	3.0	-	
		KRA563E			-	2.0	-	
		KRA564E			-	1.5	-	
	Fall Time	KRA560E	t _f		-	0.3	-	
		KRA561E			-	0.3	-	
		KRA562E			-	1.7	-	
		KRA563E			-	0.8	-	
		KRA564E			-	1.5	-	

KRA560E~KRA564E



KRA560E~KRA564E

