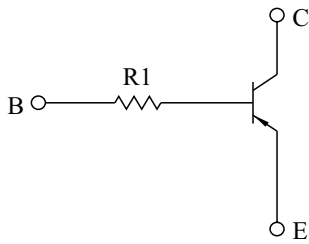


SWITCHING APPLICATION.
INTERFACE CIRCUIT AND DRIVER CIRCUIT APPLICATION.

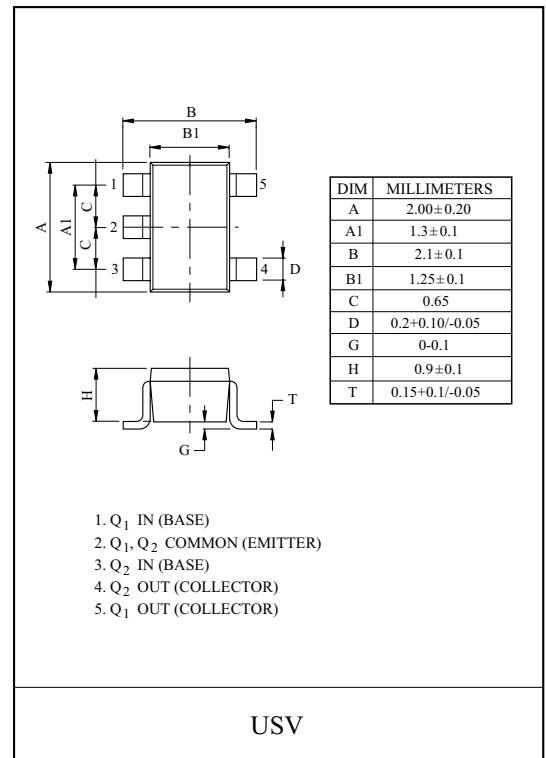
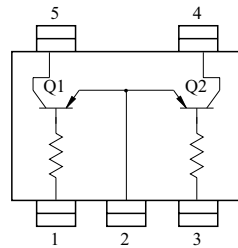
FEATURES

- 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 °C)

| CHARACTERISTIC | SYMBOL | RATING | UNIT | CHARACTERISTIC | SYMBOL | RATING | UNIT |
|---------------------------|------------------|--------|------|-----------------------------|------------------|-----------|------|
| Collector-Base Voltage | V _{CBO} | -50 | V | Collector Power Dissipation | P _C * | 200 | mW |
| Collector-Emitter Voltage | V _{CEO} | -50 | V | Junction Temperature | T _j | 150 | °C |
| Emitter-Base Voltage | V _{EBO} | -5 | V | Storage Temperature Range | T _{stg} | -55 ~ 150 | °C |
| Collector Current | I _C | -100 | mA | * Total Rating. | | | |

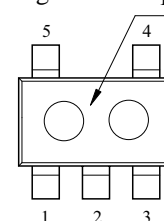
ELECTRICAL CHARACTERISTICS (Ta=25 °C)

| 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 | KRA560U | R ₁ | | - | 4.7 | - | kΩ |
| | KRA561U | | | - | 10 | - | |
| | KRA562U | | | - | 100 | - | |
| | KRA563U | | | - | 22 | - | |
| | KRA564U | | | - | 47 | - | |

MARK SPEC

| TYPE | KRA560U | KRA561U | KRA562U | KRA563U | KRA564U |
|------|---------|---------|---------|---------|---------|
| MARK | PK | PM | PN | PO | PP |

Marking



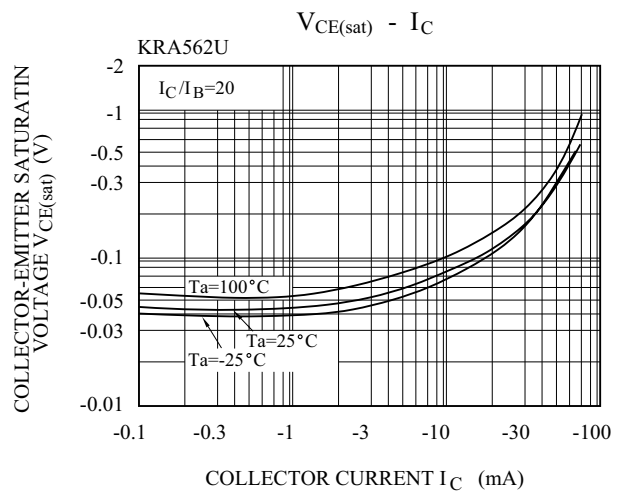
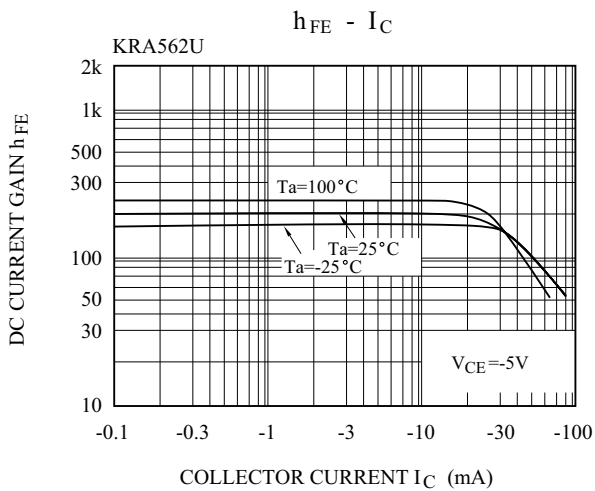
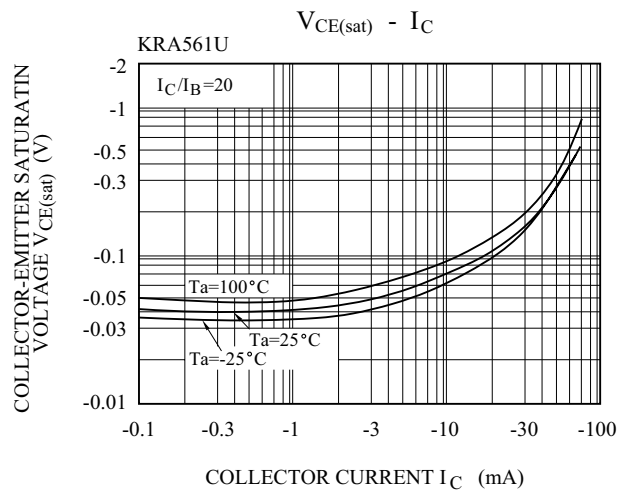
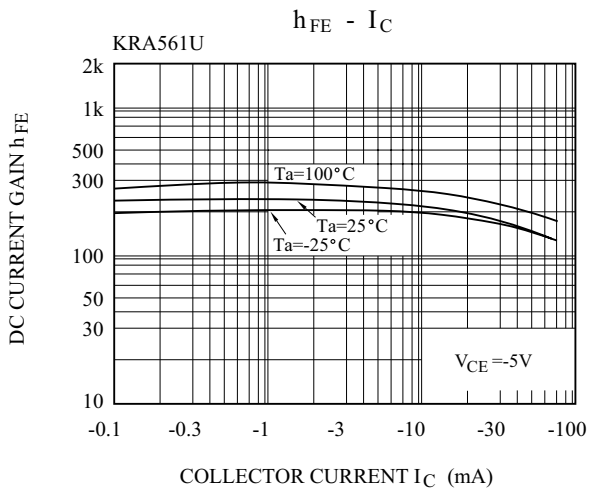
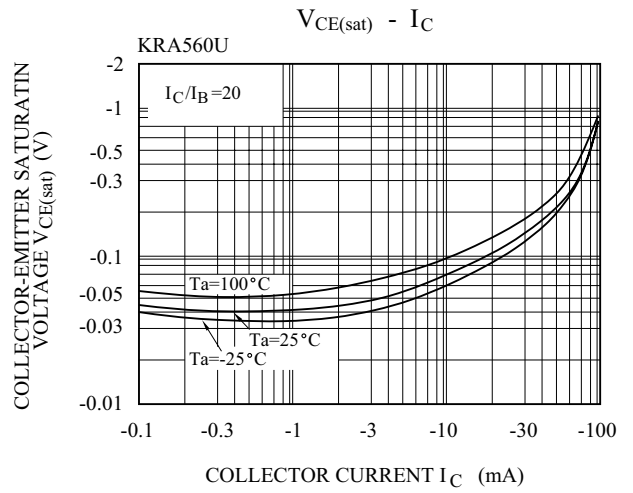
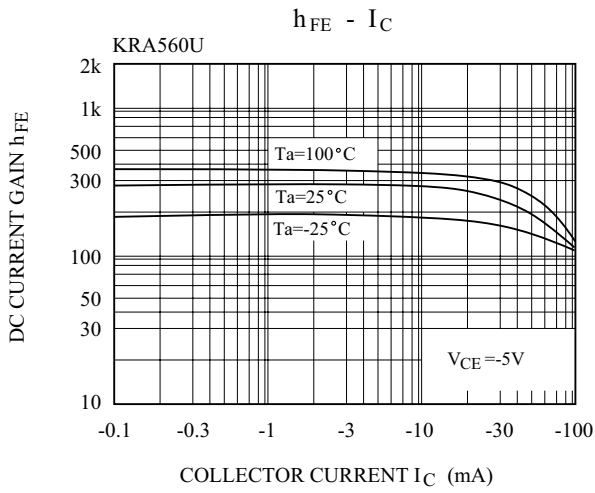
Type Name

KRA560U~KRA564U

ELECTRICAL CHARACTERISTICS (Ta=25 °C)

| CHARACTERISTIC | | SYMBOL | TEST CONDITION | MIN. | TYP. | MAX. | UNIT |
|----------------|--------------|---------|---|------|-------|------|------|
| Switching Time | Rise Time | KRA560U | V _O =-5V V _{IN} =-5V R _L =1k Ω | - | 0.2 | - | μS |
| | | KRA561U | | - | 0.065 | - | |
| | | KRA562U | | - | 0.4 | - | |
| | | KRA563U | | - | 0.1 | - | |
| | | KRA564U | | - | 0.15 | - | |
| | Storage Time | KRA560U | | - | 2.0 | - | |
| | | KRA561U | | - | 1.7 | - | |
| | | KRA562U | | - | 3.0 | - | |
| | | KRA563U | | - | 2.0 | - | |
| | | KRA564U | | - | 1.5 | - | |
| | Fall Time | KRA560U | | - | 0.3 | - | |
| | | KRA561U | | - | 0.3 | - | |
| | | KRA562U | | - | 1.7 | - | |
| | | KRA563U | | - | 0.8 | - | |
| | | KRA564U | | - | 1.5 | - | |

KRA560U~KRA564U



KRA560U~KRA564U

