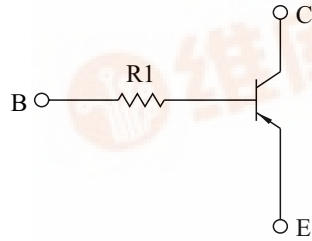


SWITCHING APPLICATION.
INTERFACE CIRCUIT AND DRIVER CIRCUIT APPLICATION.

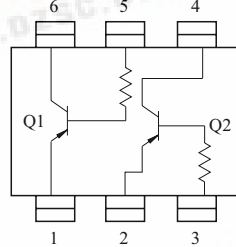
FEATURES

- 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)



| DIM | MILLIMETERS |
|-----|----------------|
| A | 2.00±0.20 |
| A1 | 1.3±0.1 |
| B | 2.1±0.1 |
| B1 | 1.25±0.1 |
| C | 0.65 |
| D | 0.2+0.10/-0.05 |
| G | 0-0.1 |
| H | 0.9±0.1 |
| T | 0.15+0.1/-0.05 |

US6

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 * | 200 | mW |
| Junction Temperature | T _j | 150 | °C |
| Storage Temperature Range | T _{stg} | -55 ~ 150 | °C |

* Total Rating.

ELECTRICAL CHARACTERISTICS (Ta=25°C)

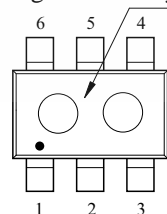
| CHARACTERISTIC | SYMBOL | TEST CONDITION | MIN. | TYP. | MAX. | UNIT |
|--------------------------------------|----------------------|---|------|------|------|------|
| Collector Cut-off Current | I _{CBO} | V _{CB} =-50V, I _E =0 | - | - | -100 | nA |
| Emitter Cut-off Current | I _{EBO} | V _{EB} =-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 | KRA730U | R ₁ | - | 4.7 | - | kΩ |
| | KRA731U | | - | 10 | - | |
| | KRA732U | | - | 100 | - | |
| | KRA733U | | - | 22 | - | |
| | KRA734U | | - | 47 | - | |

Note : * Characteristic of transistor only.

MARK SPEC

| TYPE | KRA730U | KRA731U | KRA732U | KRA733U | KRA734U |
|------|---------|---------|---------|---------|---------|
| MARK | JK | JM | JN | JO | JP |

Marking



Type Name

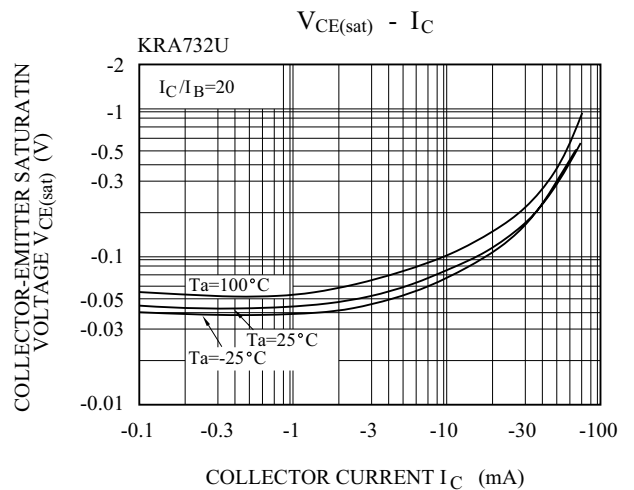
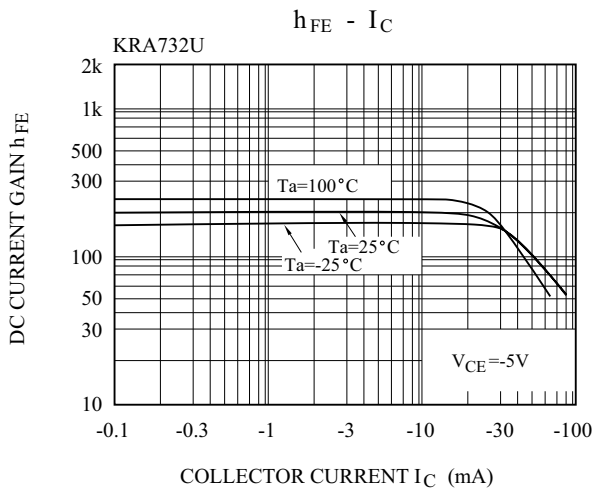
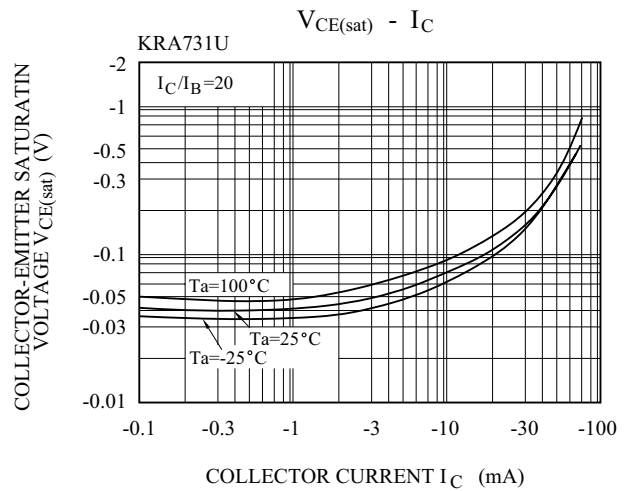
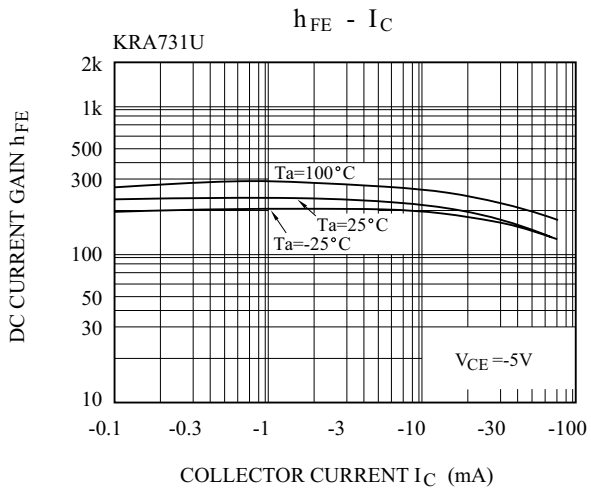
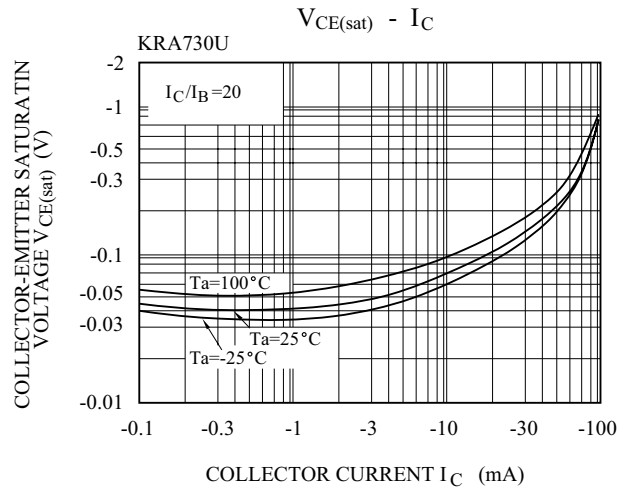
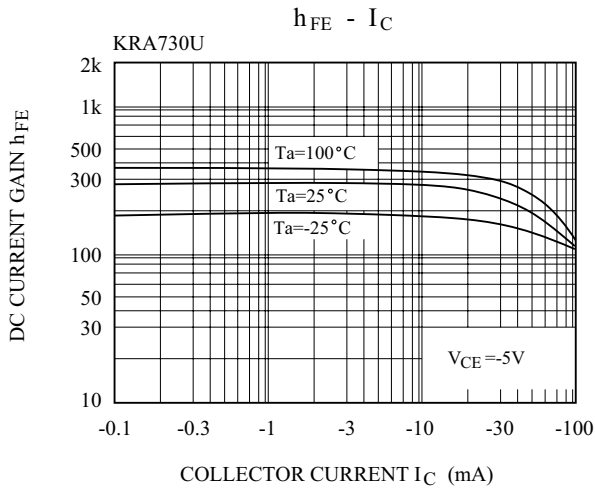


KRA730U~KRA734U

ELECTRICAL CHARACTERISTICS (Ta=25 °C)

| CHARACTERISTIC | | | SYMBOL | TEST CONDITION | MIN. | TYP. | MAX. | UNIT |
|----------------|--------------|---------|-----------|---|------|-------|------|---------|
| Switching Time | Rise Time | KRA730U | t_r | $V_O=-5V$ $V_{IN}=-5V$ $R_L=1k\ \Omega$ | - | 0.2 | - | μS |
| | | KRA731U | | | - | 0.065 | - | |
| | | KRA732U | | | - | 0.4 | - | |
| | | KRA733U | | | - | 0.1 | - | |
| | | KRA734U | | | - | 0.15 | - | |
| | Storage Time | KRA730U | t_{stg} | | - | 2.0 | - | |
| | | KRA731U | | | - | 1.7 | - | |
| | | KRA732U | | | - | 3.0 | - | |
| | | KRA733U | | | - | 2.0 | - | |
| | | KRA734U | | | - | 1.5 | - | |
| | Fall Time | KRA730U | t_f | | - | 0.3 | - | |
| | | KRA731U | | | - | 0.3 | - | |
| | | KRA732U | | | - | 1.7 | - | |
| | | KRA733U | | | - | 0.8 | - | |
| | | KRA734U | | | - | 1.5 | - | |

KRA730U~KRA734U



KRA730U~KRA734U

