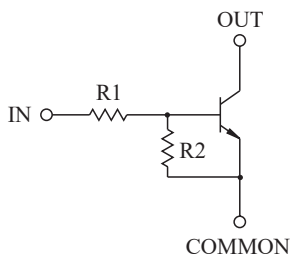


SWITCHING APPLICATION.  
INTERFACE CIRCUIT AND DRIVER CIRCUIT APPLICATION.

### FEATURES

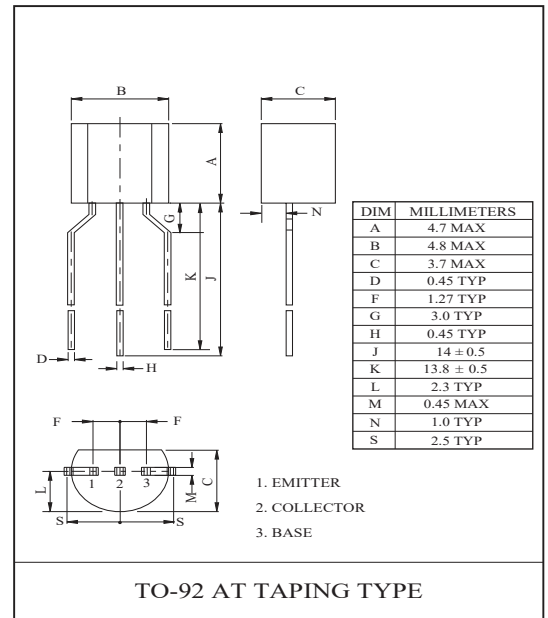
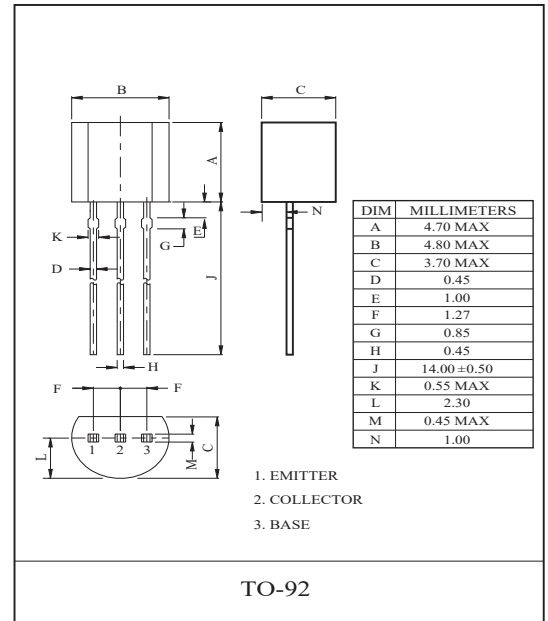
- With Built-in Bias Resistors.
- Simplify Circuit Design.
- Reduce a Quantity of Parts and Manufacturing Process.

### EQUIVALENT CIRCUIT



### BIAS RESISTOR VALUES

| TYPE NO. | R1(kΩ) | R2(kΩ) |
|----------|--------|--------|
| KRC101   | 4.7    | 4.7    |
| KRC102   | 10     | 10     |
| KRC103   | 22     | 22     |
| KRC104   | 47     | 47     |
| KRC105   | 2.2    | 47     |
| KRC106   | 4.7    | 47     |



### MAXIMUM RATING (Ta=25°C)

| CHARACTERISTIC            |              | SYMBOL    | RATING    | UNIT |
|---------------------------|--------------|-----------|-----------|------|
| Output Voltage            | KRC101 ~ 106 | $V_o$     | 50        | V    |
| Input Voltage             | KRC101       | $V_i$     | 20, -10   | V    |
|                           | KRC102       |           | 30, -10   |      |
|                           | KRC103       |           | 40, -10   |      |
|                           | KRC104       |           | 40, -10   |      |
|                           | KRC105       |           | 12, -5    |      |
|                           | KRC106       |           | 20, -5    |      |
| Output Current            | KRC101 ~ 106 | $I_o$     | 100       | mA   |
| Power Dissipation         |              | $P_D$     | 625       | mW   |
| Junction Temperature      |              | $T_j$     | -55~150   | °C   |
| Storage Temperature Range |              | $T_{stg}$ | -55 ~ 150 | °C   |

# KRC101~KRC106

## ELECTRICAL CHARACTERISTICS (Ta=25°C)

| CHARACTERISTIC         |              | SYMBOL       | TEST CONDITION        | MIN. | TYP. | MAX. | UNIT |
|------------------------|--------------|--------------|-----------------------|------|------|------|------|
| Output Cut-off Current | KRC101 ~ 106 | $I_{O(OFF)}$ | $V_O=50V, V_I=0$      | -    | -    | 500  | nA   |
| DC Current Gain        | KRC101       | $G_I$        | $V_O=5V, I_O=10mA$    | 30   | 55   | -    |      |
|                        | KRC102       |              |                       | 50   | 80   | -    |      |
|                        | KRC103       |              |                       | 70   | 120  | -    |      |
|                        | KRC104       |              |                       | 80   | 200  | -    |      |
|                        | KRC105       |              |                       | 80   | 200  | -    |      |
|                        | KRC106       |              |                       | 80   | 200  | -    |      |
| Output Voltage         | KRC101 ~ 106 | $V_{O(ON)}$  | $I_O=10mA, I_I=0.5mA$ | -    | 0.1  | 0.3  | V    |
| Input Voltage (ON)     | KRC101       | $V_{I(ON)}$  | $V_O=0.2V, I_O=5mA$   | -    | 1.5  | 2.0  | V    |
|                        | KRC102       |              |                       | -    | 1.8  | 2.4  |      |
|                        | KRC103       |              |                       | -    | 2.1  | 3.0  |      |
|                        | KRC104       |              |                       | -    | 2.8  | 5.0  |      |
|                        | KRC105       |              |                       | -    | 0.8  | 1.1  |      |
|                        | KRC106       |              |                       | -    | 0.9  | 1.3  |      |
| Input Voltage (OFF)    | KRC101 ~ 104 | $V_{I(OFF)}$ | $V_O=5V, I_O=0.1mA$   | 1.0  | 1.2  | -    | V    |
|                        | KRC105 ~ 106 |              |                       | 0.5  | 0.65 | -    |      |
| Transition Frequency   | KRC101 ~ 106 | $f_T^*$      | $V_O=10V, I_O=5mA$    | -    | 200  | -    | MHz  |
| Input Current          | KRC101       | $I_I$        | $V_I=5V$              | -    | -    | 1.8  | mA   |
|                        | KRC102       |              |                       | -    | -    | 0.88 |      |
|                        | KRC103       |              |                       | -    | -    | 0.36 |      |
|                        | KRC104       |              |                       | -    | -    | 0.18 |      |
|                        | KRC105       |              |                       | -    | -    | 3.6  |      |
|                        | KRC106       |              |                       | -    | -    | 1.8  |      |
| Input Resistor         | KRC101       | R1           | -                     | 3.29 | 4.7  | 6.11 | kΩ   |
|                        | KRC102       |              |                       | 7    | 10   | 13   |      |
|                        | KRC103       |              |                       | 15.4 | 22   | 28.6 |      |
|                        | KRC104       |              |                       | 32.9 | 47   | 61.1 |      |
|                        | KRC105       |              |                       | 1.54 | 2.2  | 2.86 |      |
|                        | KRC106       |              |                       | 3.29 | 4.7  | 6.11 |      |
| Input Resistor         | KRC101       | R2           | -                     | 3.29 | 4.7  | 6.11 | kΩ   |
|                        | KRC102       |              |                       | 7    | 10   | 13   |      |
|                        | KRC103       |              |                       | 15.4 | 22   | 28.6 |      |
|                        | KRC104       |              |                       | 32.9 | 47   | 61.1 |      |
|                        | KRC105       |              |                       | 32.9 | 47   | 61.1 |      |
|                        | KRC106       |              |                       | 32.9 | 47   | 61.1 |      |

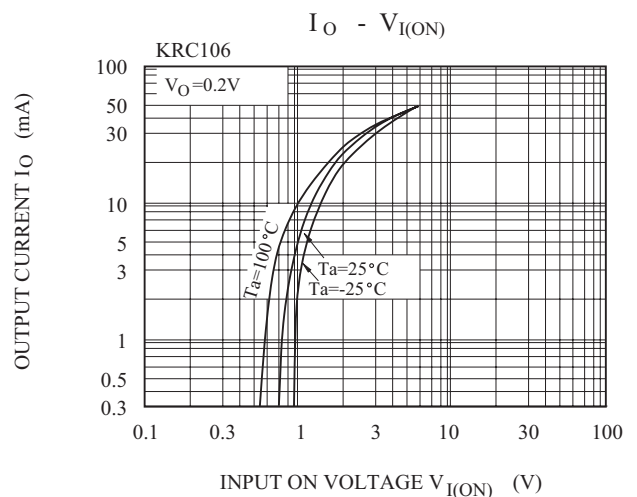
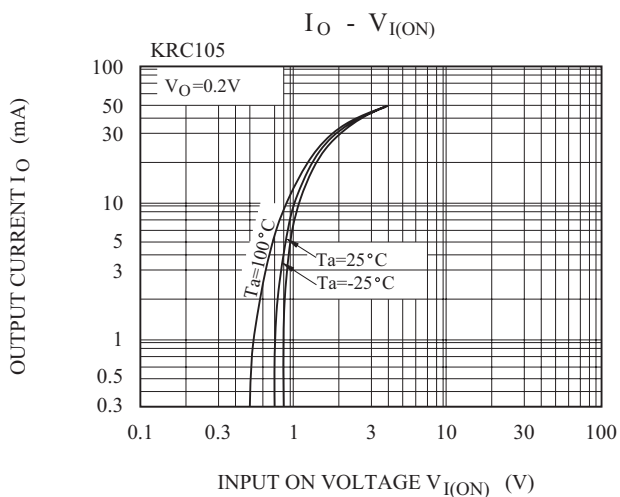
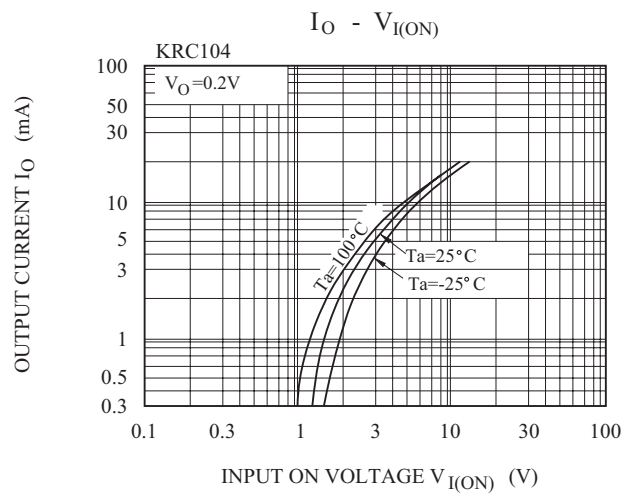
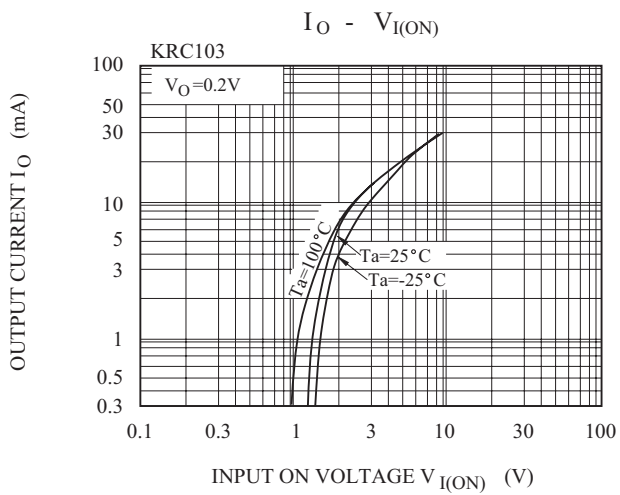
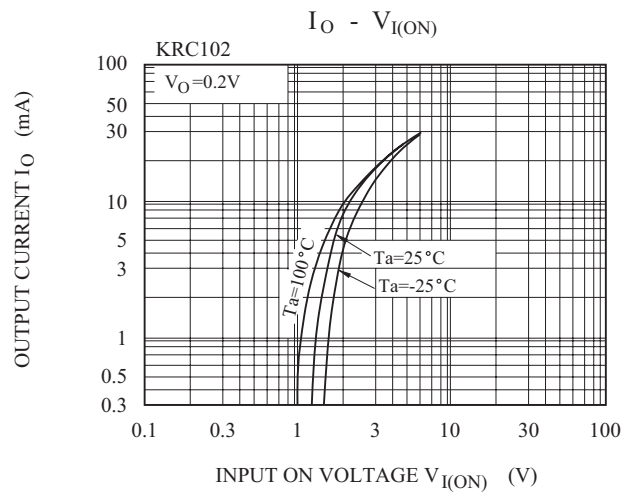
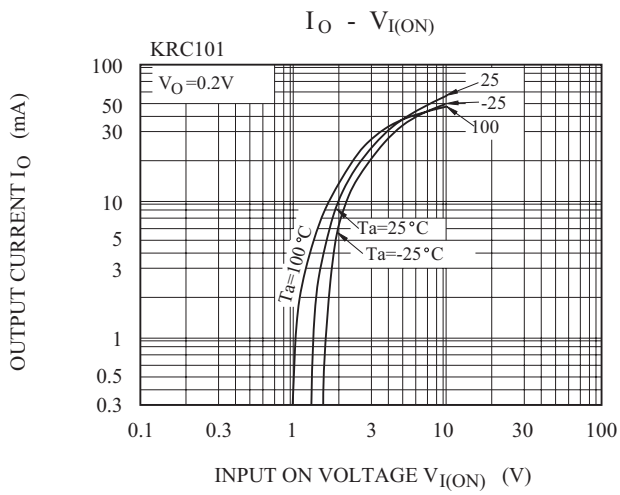
Note : \* Characteristic of Transistor Only.

# KRC101~KRC106

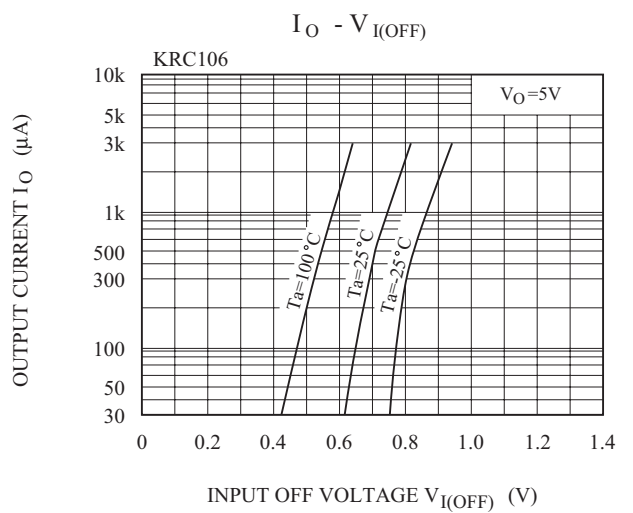
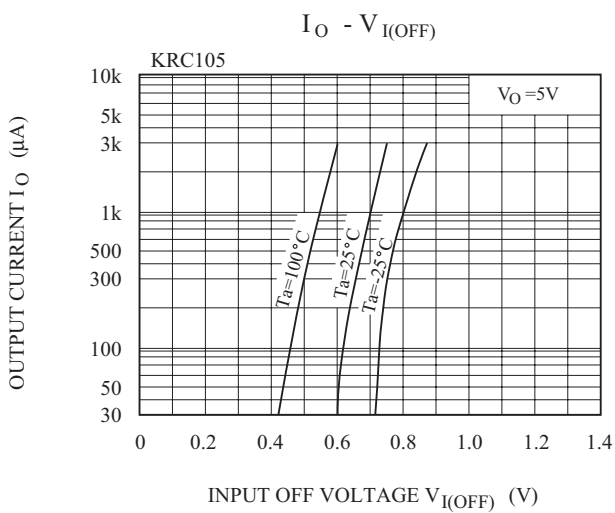
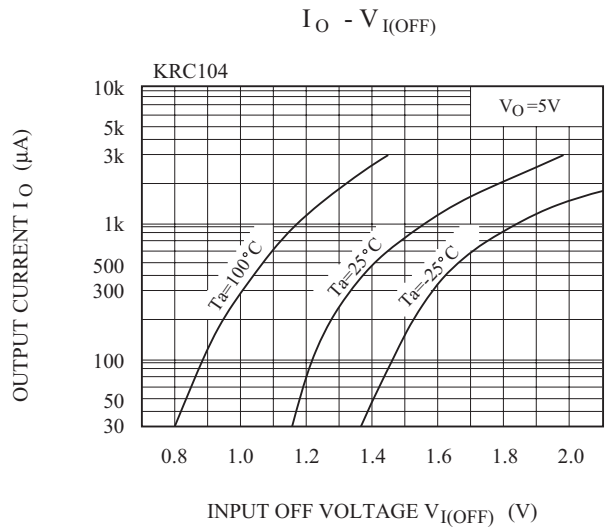
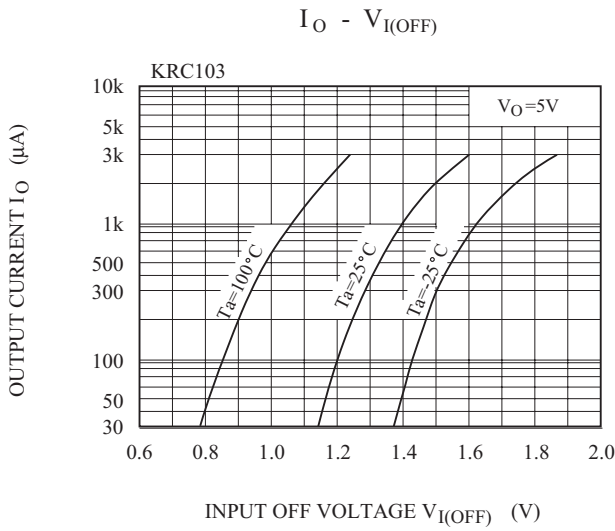
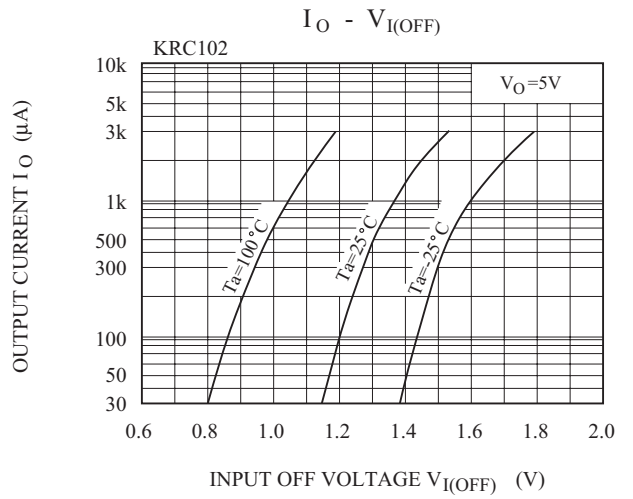
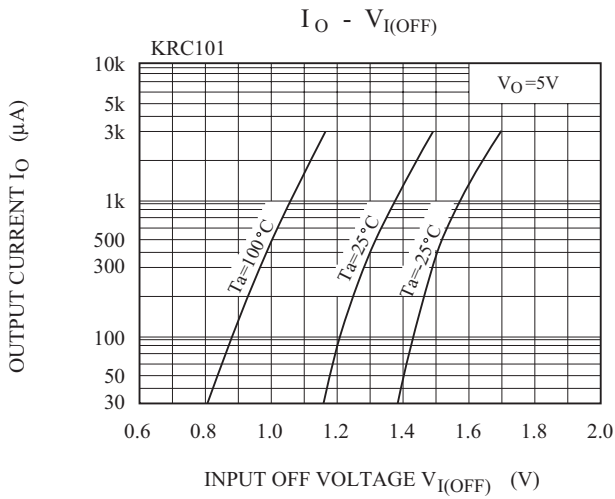
## ELECTRICAL CHARACTERISTICS (Ta=25°C)

| CHARACTERISTIC |              | SYMBOL | TEST CONDITION   | MIN. | TYP. | MAX. | UNIT |
|----------------|--------------|--------|--|------|------|------|------|
| Switching Time | Rise Time    | KRC101 | V <sub>O</sub> =5V<br>V <sub>IN</sub> =5V<br>R <sub>L</sub> =1kΩ | -    | 0.03 | -    | μS   |
|                |              | KRC102 |  | -    | 0.05 | -    |      |
|                |              | KRC103 |  | -    | 0.12 | -    |      |
|                |              | KRC104 |  | -    | 0.22 | -    |      |
|                |              | KRC105 |  | -    | 0.01 | -    |      |
|                |              | KRC106 |  | -    | 0.03 | -    |      |
|                | Storage Time | KRC101 |  | -    | 2.0  | -    |      |
|                |              | KRC102 |  | -    | 2.0  | -    |      |
|                |              | KRC103 |  | -    | 2.0  | -    |      |
|                |              | KRC104 |  | -    | 2.0  | -    |      |
|                |              | KRC105 |  | -    | 2.0  | -    |      |
|                |              | KRC106 |  | -    | 2.0  | -    |      |
|                | Fall Time    | KRC101 |  | -    | 0.12 | -    |      |
|                |              | KRC102 |  | -    | 0.36 | -    |      |
|                |              | KRC103 |  | -    | 0.35 | -    |      |
|                |              | KRC104 |  | -    | 0.6  | -    |      |
|                |              | KRC105 |  | -    | 0.1  | -    |      |
|                |              | KRC106 |  | -    | 0.19 | -    |      |

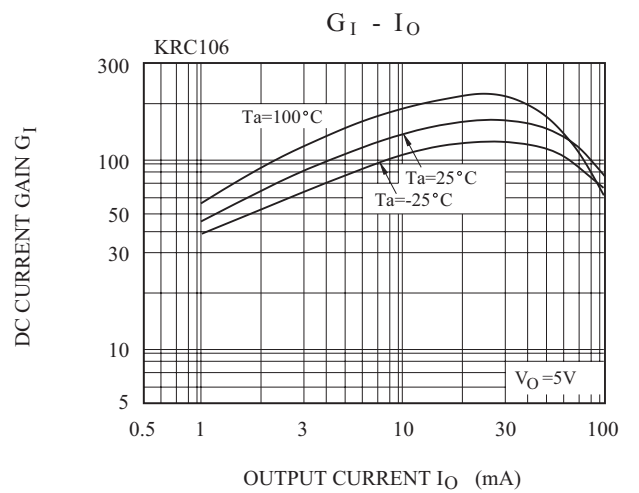
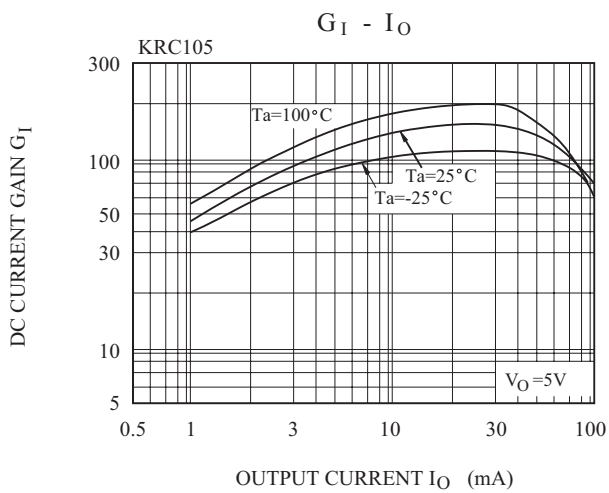
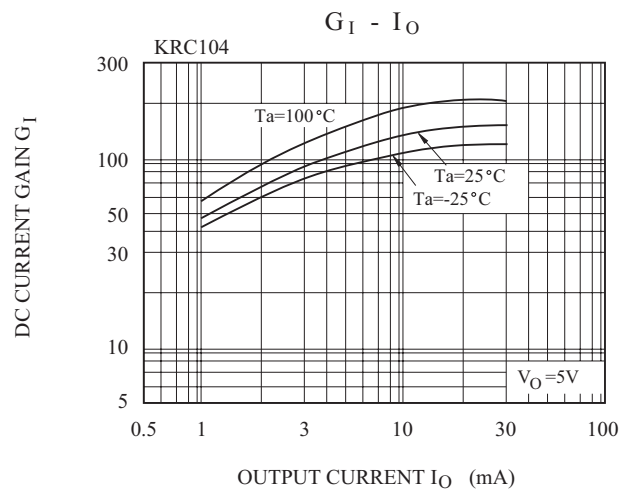
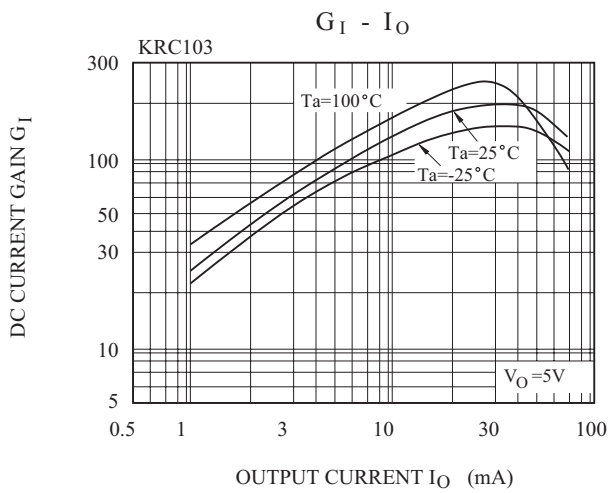
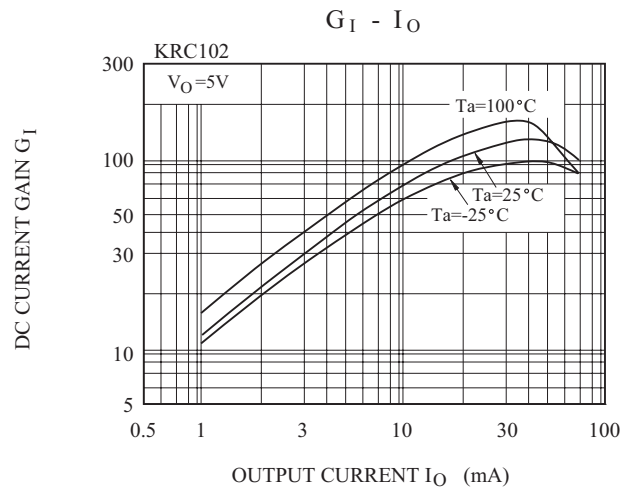
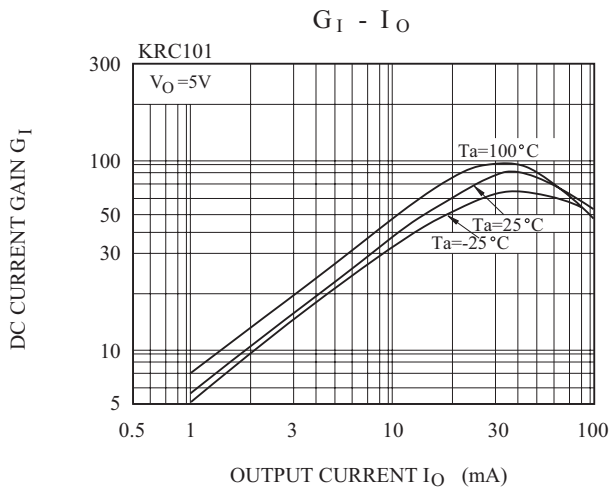
# KRC101~KRC106



# KRC101~KRC106



# KRC101~KRC106



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