

产品规格书

| 批 准 | 审 核 | 校 核 | 编 制 |
|------------|------------|------------|------------|
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| 2018.11.23 | 2018.11.23 | 2018.11.23 | 2018.11.23 |

规格书更改履历:

| 序号 | 更改内容 | 履历号 | 更改时间 | 责任人 |
|----|------|-----|--------------|-----|
| 1 | 新规制定 | 000 | 2018. 11. 23 | 郑羿 |
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Descriptions

- Switching application
- Interface circuit and driver circuit application

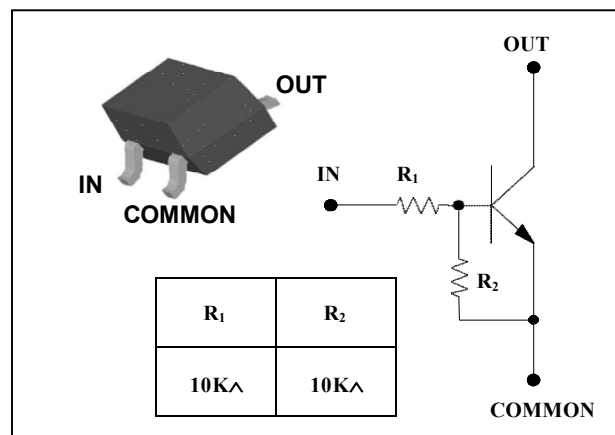
Features

- With built-in bias resistors
- Simplify circuit design
- Reduce a quantity of parts and manufacturing process
- High packing density

Ordering Information

| Type NO. | Marking | Package Code |
|--|---------------|--------------|
| KRC1202S | RC2 □. ① ② | SOT-23 |
| ① Device Code ② Year&Week Code .Dalian | | |

PIN Connection



Absolute Maximum Ratings

(Ta=25°C)

| Characteristic | Symbol | Rating | Unit |
|---------------------------|------------------|-----------|------|
| Output voltage | V _O | 50 | V |
| Input voltage | V _I | 30, -10 | V |
| Output current | I _O | 100 | mA |
| Power dissipation | P _D | 200 | mW |
| Junction temperature | T _J | 150 | °C |
| Storage temperature range | T _{stg} | -55 ~ 150 | °C |

Electrical Characteristics

(Ta=25°C)

| Characteristic | Symbol | Test Condition | Min. | Typ. | Max. | Unit |
|---------------------------------|---------------------|--|------|------|------|------------|
| Output cut-off current | I _{O(OFF)} | V _O =50V, V _I =0 | - | - | 500 | nA |
| DC current gain | G _I | V _O =5V, I _O =10mA | 50 | 80 | - | - |
| Output voltage | V _{O(ON)} | I _O =10mA, I _I =0.5mA | - | 0.1 | 0.3 | V |
| Input voltage (ON) | V _{I(ON)} | V _O =0.2V, I _O =5mA | - | 1.8 | 2.4 | V |
| Input voltage (OFF) | V _{I(OFF)} | V _O =5V, I _O =0.1mA | 1.0 | 1.2 | - | V |
| Transition frequency | f _T * | V _O =10V, I _O =5mA, f=1MHz | - | 200 | - | MHz |
| Input current | I _I | V _I =5V, I _O =0 | - | - | 0.88 | mA |
| Input resistor (Input to base) | R ₁ | - | 7 | 10 | 13 | K Ω |
| Input resistor (Base to common) | R ₂ | - | 7 | 10 | 13 | K Ω |

* : Characteristic of transistor only

Electrical Characteristic Curves

Fig. 1 $P_D - T_a$

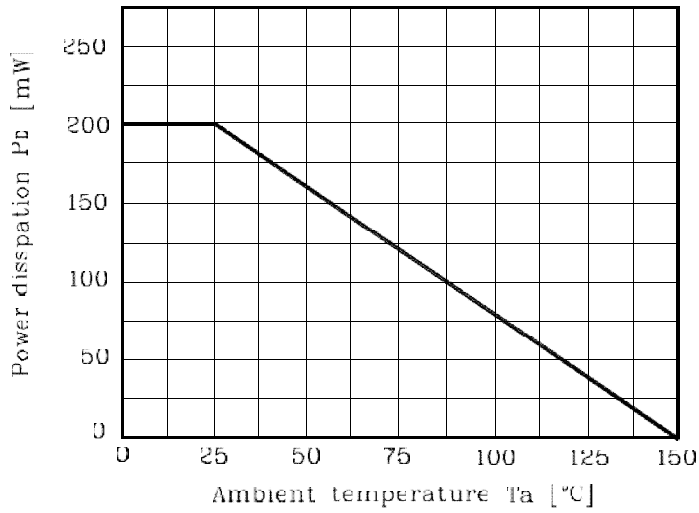


Fig. 2 $I_O - V_{I(ON)}$

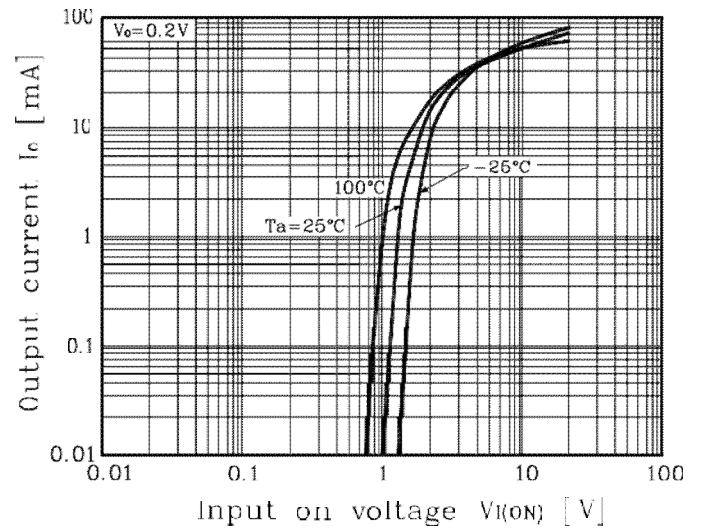


Fig. 3 $I_O - V_{I(OFF)}$

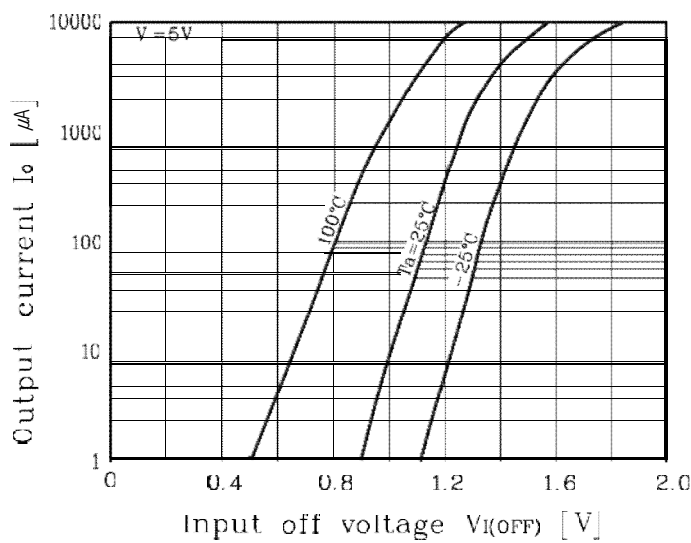
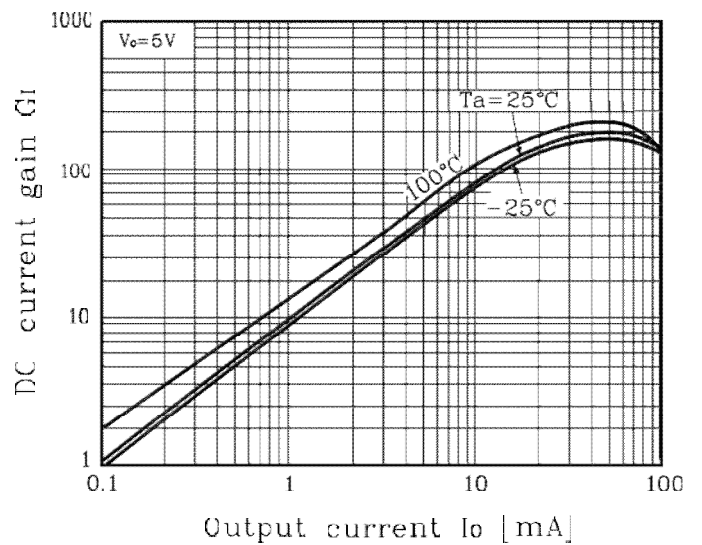
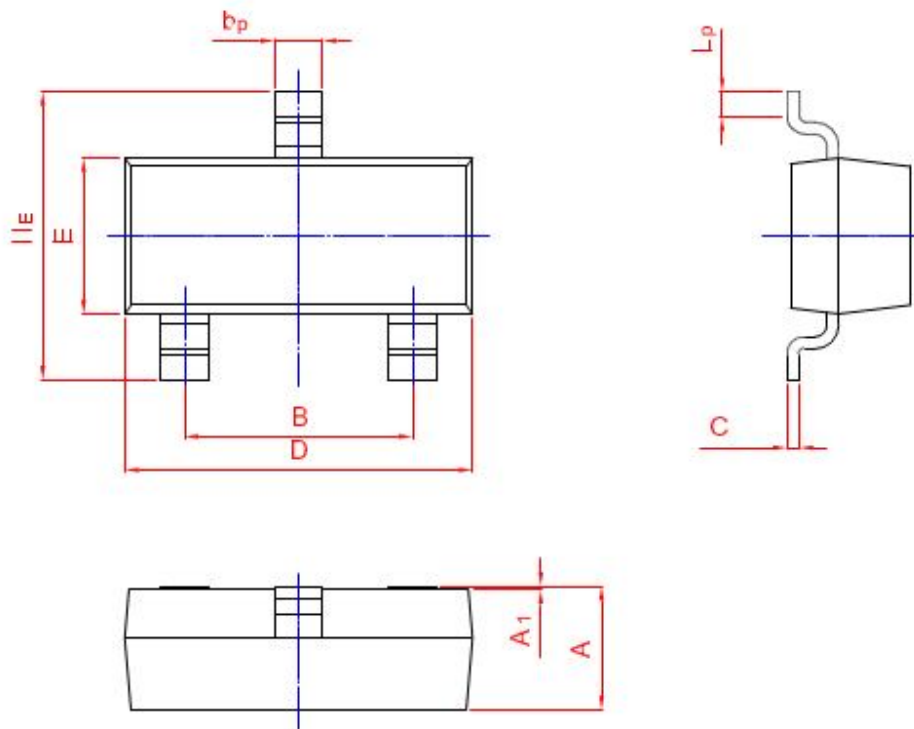


Fig. 4 $G_I - I_O$



Outline Dimension



| UNIT | A | B | b _p | C | D | E | H _E | A ₁ | L _p |
|------|--------------|--------------|----------------|--------------|--------------|--------------|----------------|----------------|----------------|
| mm | 1.40 0.95 | 2.04 1.78 | 0.50 0.35 | 0.19 0.08 | 3.10 2.70 | 1.65 1.20 | 3.00 2.20 | 0.100 0.013 | 0.50 0.20 |

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