

Descriptions

- General purpose application
- Two SRA2205 chips in SOT-353 package

Features

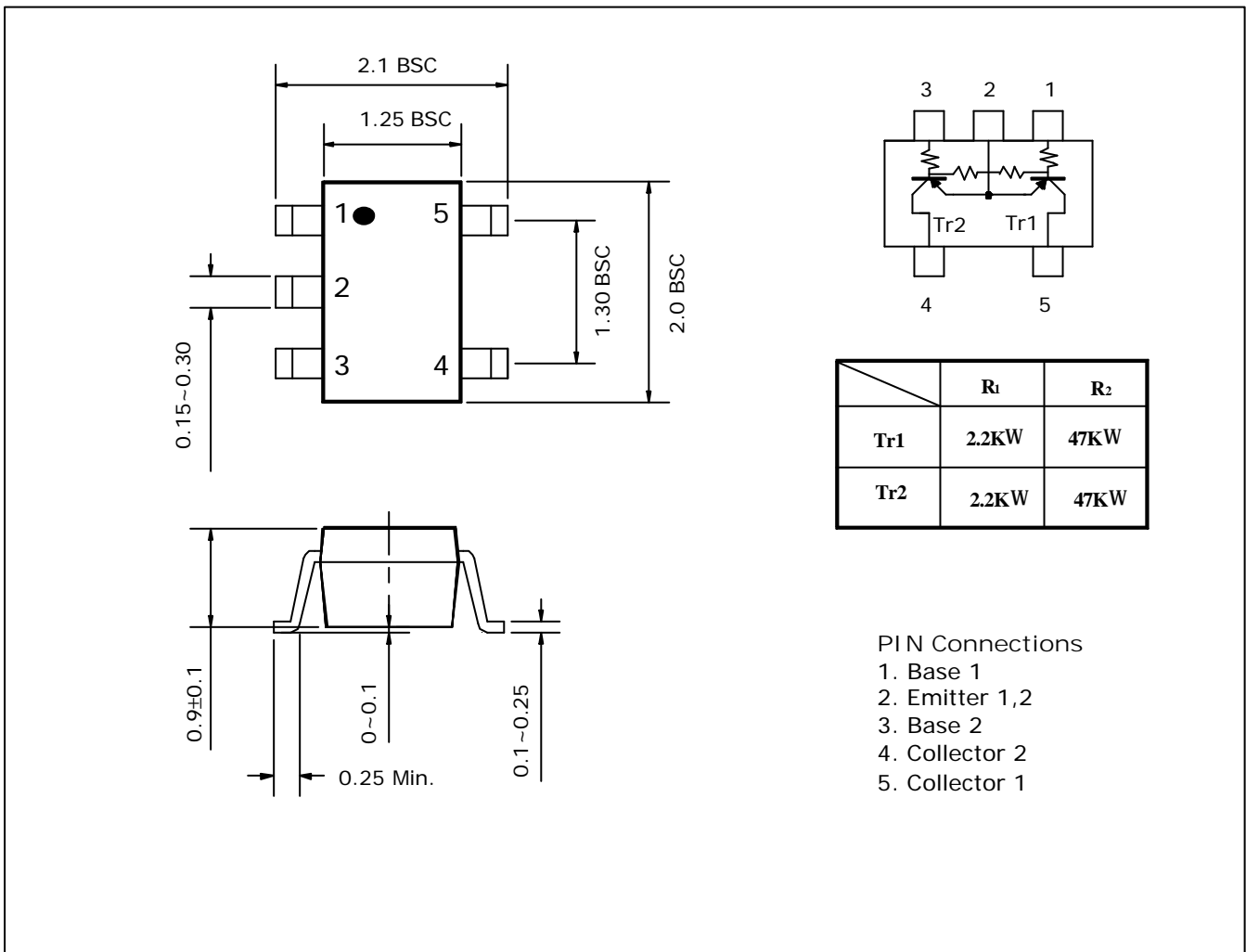
- With built-in bias resistors
- Simplify circuit design
- Reduce a quantity of parts and manufacturing process

Ordering Information

| Type NO. | Marking | Package Code |
|----------|---------|--------------|
| SUR499H | Y1 | SOT-353 |

Outline Dimensions

unit : mm



Absolute maximum ratings

| Characteristic | Symbol | Ratings | Unit |
|----------------------|-----------|-----------|------|
| Output voltage | V_o | -50 | V |
| Input voltage | V_i | -12 | V |
| Output current | I_o | -100 | mA |
| Power dissipation | P_D | 150 | mW |
| Junction temperature | T_j | 150 | °C |
| Storage temperature | T_{stg} | -55 ~ 150 | °C |

Electrical Characteristics

| Characteristic | Symbol | Test Condition | Min. | Typ. | Max. | Unit |
|------------------------|--------------|-----------------------------|------|------|------|------|
| Output out-off current | $I_{O(OFF)}$ | $V_o = -50V, V_i = 0$ | - | - | -500 | nA |
| DC current gain | G_i | $V_o = -5V, I_o = -10mA$ | 80 | 200 | - | - |
| Output voltage | $V_{O(ON)}$ | $I_o = -10mA, I_i = -0.5mA$ | - | -0.1 | -0.3 | V |
| Input voltage(ON) | $V_{I(ON)}$ | $V_o = -0.2V, I_o = -5mA$ | - | - | -1.1 | V |
| Input voltage(OFF) | $V_{I(OFF)}$ | $V_o = -5V, I_o = -0.1mA$ | -0.4 | - | - | V |
| Transistor frequency | f_T^* | $V_o = -10V, I_o = -5mA$ | - | 200 | - | MHz |
| Input current | I_i | $V_i = -5V$ | - | - | -3.6 | mA |

* : Characteristic of transistor only

Electrical Characteristic Curves

Fig. 1 $I_o - V_{I(ON)}$

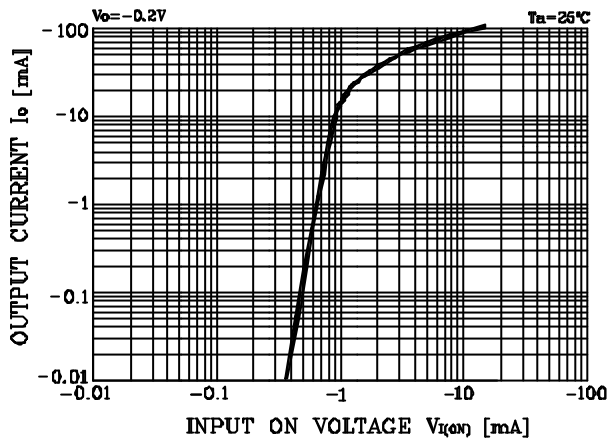


Fig. 2 $I_o - V_{I(OFF)}$

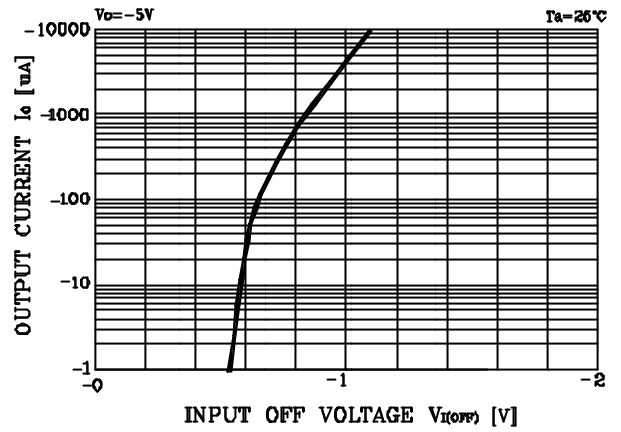


Fig. 3 $G_i - I_o$

