

Description

- General purpose transistor

Feature

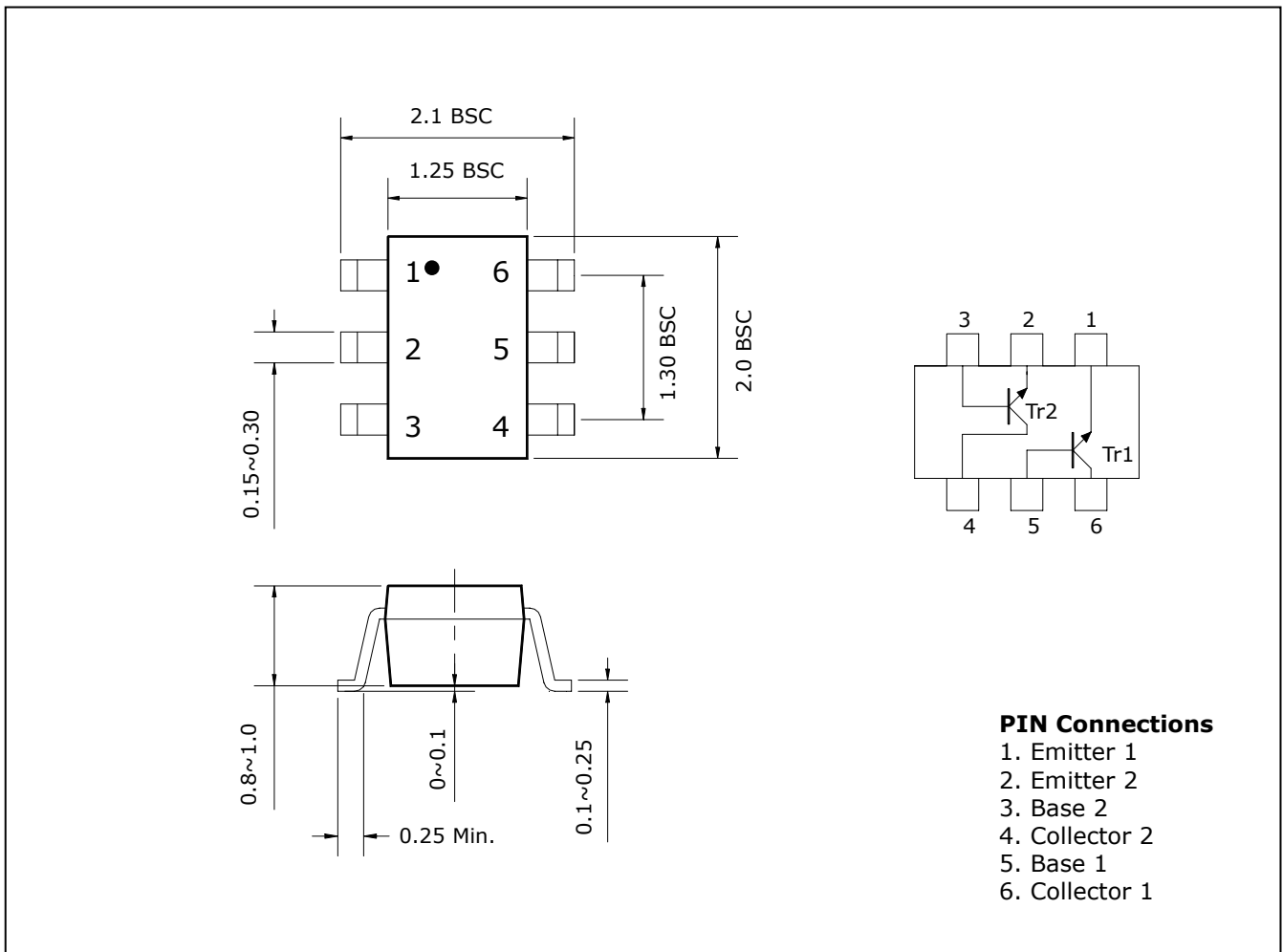
- Two 2SC5343 chips in SOT-363 package

Ordering Information

| Type NO. | Marking | Package Code |
|----------|---------|--------------|
| SUT486J | 6X | SOT-363 |

Outline Dimensions

unit : mm



Absolute maximum ratings (Tr1, Tr2 : NPN)

Ta=25°C

| Characteristic | Symbol | Ratings | Unit |
|---------------------------|-----------|---------|------|
| Collector-Base voltage | V_{CBO} | 60 | V |
| Collector-Emitter voltage | V_{CEO} | 50 | V |
| Emitter-base voltage | V_{EBO} | 5 | V |
| Collector current | I_C | 150 | mA |
| Collector dissipation | P_C | 150 | mW |
| Junction temperature | T_j | 150 | °C |
| Storage temperature range | T_{stg} | -55~150 | °C |

Electrical Characteristics(Tr1,Tr2 : NPN)

Ta=25°C

| Characteristic | Symbol | Test Condition | Min. | Typ. | Max. | Unit |
|--------------------------------------|---------------|---------------------------------|------|------|------|---------|
| Collector-Base breakdown voltage | BV_{CBO} | $I_C=100\mu A, I_E=0$ | 60 | - | - | V |
| Collector-Emitter breakdown voltage | BV_{CEO} | $I_C=1mA, I_B=0$ | 50 | - | - | V |
| Emitter-Base breakdown voltage | BV_{EBO} | $I_E=10\mu A, I_C=0$ | 5 | - | - | V |
| Collector cut-off current | I_{CBO} | $V_{CB}=60V, I_E=0$ | - | - | 0.1 | μA |
| Emitter cut-off current | I_{EBO} | $V_{EB}=5V, I_C=0$ | - | - | 0.1 | μA |
| DC current gain | h_{FE} | $V_{CE}=6V, I_C=2mA$ | 70 | - | 700 | - |
| Collector-Emitter saturation voltage | $V_{CE(sat)}$ | $I_C=100mA, I_B=10mA$ | - | - | 0.25 | V |
| Transition frequency | f_T | $V_{CE}=10V, I_C=1mA, f=100MHz$ | 80 | - | - | MHz |
| Collector output capacitance | C_{ob} | $V_{CB}=10V, I_E=0, f=1MHz$ | - | 2 | 3.5 | pF |

Electrical Characteristic Curves

Tr1, Tr2 : NPN

Fig. 1 $I_C - V_{BE}$

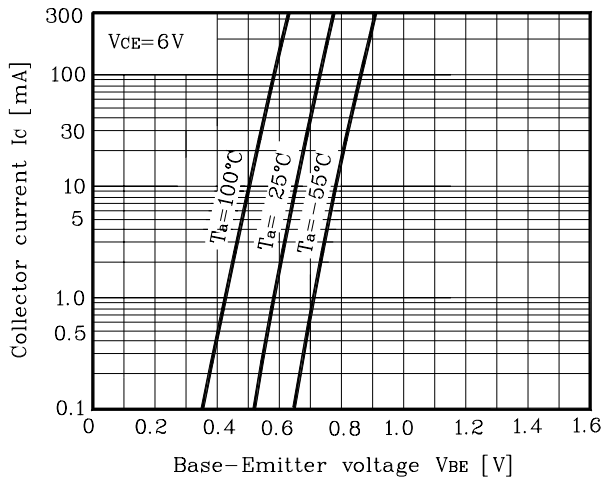


Fig. 2 $I_C - V_{CE}$

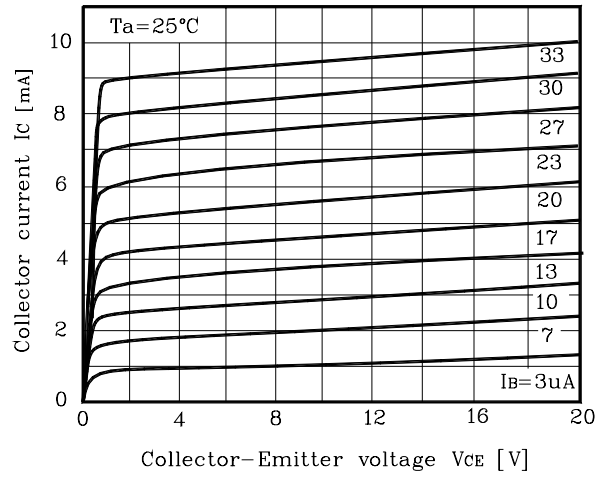


Fig. 3 $h_{FE} - I_C$

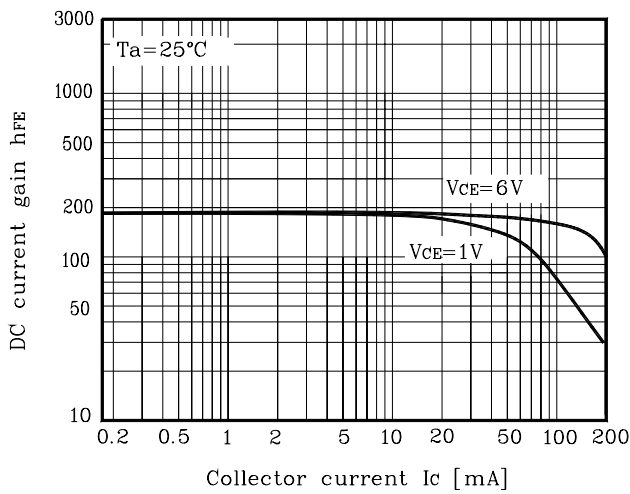
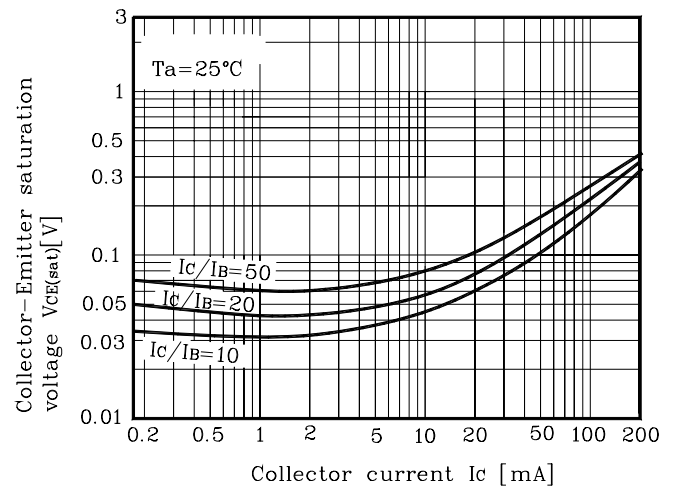


Fig. 4 $V_{CE(sat)} - I_C$



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