NPN small signal transistor **SSTA13**

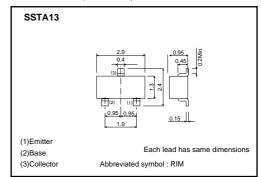
● Features

1) High Current Gain.

Packaging specifications

| Туре | Package | Taping |
|--------|------------------------------|--------|
| | Code | T116 |
| | Basic ordering unit (pieces) | 3000 |
| SSTA13 | | 0 |

●Dimensions (Unit: mm)



● Absolute maximum ratings (Ta=25°C)

| Parameter | Symbol | Limits | Unit |
|-----------------------------|--------|------------|------|
| Collector-base voltage | Vсво | 30 | V |
| Collector-emitter voltage | Vces | 30 | V |
| Emitter-base voltage | Vево | 10 | V |
| Collector current | lc | 0.3 | Α |
| Collector power dissipation | Pc | 0.2 | W |
| Junction temperature | Tj | 150 | °C |
| Storage temperature | Tstg | -55 to 125 | °C |

●Electrical characteristics (Ta=25°C)

| Parameter | Symbol | Min. | Тур. | Max. | Unit | Conditions |
|--------------------------------------|----------|-------|------|------|------|----------------------------------|
| Collector-emitter breakdown voltage | BVces | 30 | _ | _ | V | Ic= 100μA |
| Collector-emitter breakdown voltage | BVceo | 30 | _ | _ | V | Ic= 10μA |
| Emitter-base breakdown voltage | ВУЕВО | 10 | _ | _ | V | Iε= 10μA |
| Collector-base cutoff current | Ісво | _ | _ | 0.1 | μΑ | Vcb= 30V |
| Emitter-base cutoff current | Ієво | - | _ | 0.1 | μΑ | V _{EB} = 10V |
| Collector-emitter saturation voltage | VCE(sat) | - | - | 1.5 | V | Ic/I _B = 100mA/ 0.1mA |
| Base-emitter voltage | VBE(on) | - | _ | 2.0 | V | VcE= 5V, Ic= 100mA * |
| DC autrent transfer ratio | hfe | 5000 | - | _ | _ | Vce= 5V, Ic= 10mA |
| DC current transfer ratio | | 10000 | _ | _ | | VcE= 5V, Ic= 100mA * |
| Transition frequency | f⊤ | 125 | - | _ | MHz | Vce= 5V, Ie= 10mA, f=100MHz |
| Collector output capacitance | Cob | - | 5.4 | _ | pF | Vcв= 10V, f=100kHz, IE=0 |

^{*} Pulsed

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