NPN general purpose transistor **SSTA28 / MMSTA28**

Features

1) BVces < 80V (Ic=100µA)

•Package, marking and packaging specifications

| | - | - |
|------------------------------|--------|---------|
| Part No. | SSTA28 | MMSTA28 |
| Packaging type | SST3 | SMT3 |
| Marking | RAT | RAT |
| Code | T116 | T146 |
| Basic ordering unit (pieces) | 3000 | 3000 |

•Absolute maximum ratings (Ta=25°C)

| Parameter | Symbol | Limits | Unit |
|-----------------------------|--------|-------------|------|
| Collector-base voltage | Vсво | 80 | V |
| Collector-emitter voltage | VCEO | 80 | V |
| Emitter-base voltage | Vebo | 12 | V |
| Collector current | lc | 0.3 | A |
| Collector power dissipation | Pc | 0.2 | W |
| Junction temperature | Tj | 150 | °C |
| Storage temperature | Tstg | -55 to +150 | °C |

•External dimensions (Unit : mm)



Electrical characteristics (Ta=25°C)

| Parameter | Symbol | Min. | Тур. | Max. | Unit | Conditions |
|--------------------------------------|------------|-------|------|------|------|---|
| Collector-base breakdown voltage | ВУсво | 80 | - | - | V | Ic = 100μA |
| Collector-emitter breakdown voltage | BVces | 80 | - | - | V | Ic = 100μA |
| Emitter-base breakdown voltage | ВVево | 12 | - | - | V | Ιε = 10μΑ |
| Collector cutoff current | Ісво | - | - | 0.1 | μΑ | Vcb = 60V |
| | Іево | - | - | 0.1 | μA | Veb = 10V |
| | Ices | - | - | 0.5 | μΑ | Vce = 10V |
| Collector-emitter saturation voltage | Vce(sat) 1 | - | 0.7 | 1.2 | V | $Ic/I_B = 10mA/10\mu A$ |
| | VCE(sat) 2 | - | 0.8 | 1.5 | V | Ic/IB = 100mA/0.1mA |
| Base-emitter saturation voltage | VBE(on) | - | 1.4 | 2.0 | V | $V_{CE}/I_B = 5V/100mA$ |
| DC current transfer ratio | hfe | 10000 | - | - | _ | Vce = 5V , Ic = 10mA |
| | | 10000 | - | - | | Vce = 5V , Ic = 100mA |
| Transition frequency | f⊤ | 125 | 200 | _ | MHz | $V_{CE}=5V$, $I_{E}=10mA$, $f=100MHz$ |
| Output Capecitance | Cob | - | 5.0 | 8.0 | pF | $V_{CB} = 10V$, $I_E = 0$, $f = 1MHz$ |

Transistors



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