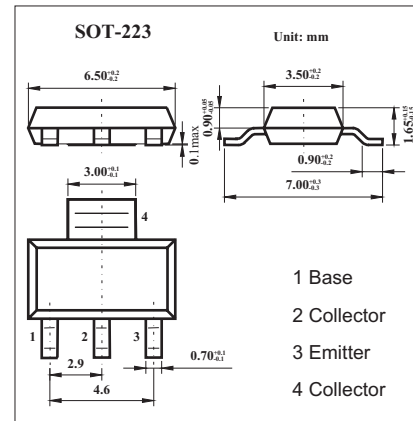


KZT122 (CZT122)

■ **Features**

- High current (max. 5A).
- Low voltage (max. 100V).



■ **Absolute Maximum Ratings** Ta = 25°C

| Parameter | Symbol | Rating | Unit |
|--|------------------|-------------|------|
| Collector-base voltage | V _{CB0} | 100 | V |
| Collector-emitter voltage | V _{CEO} | 100 | V |
| Emitter-base voltage | V _{EBO} | 5 | V |
| Collector current | I _C | 5 | A |
| | I _{CP} | 8 | A |
| Base current | I _B | 120 | mA |
| power dissipation | P _D | 2 | W |
| Thermal Resistance.Junction-to-Ambient | R _{θJA} | 62.5 | °C/W |
| Junction temperature | T _J | 150 | °C |
| Storage temperature | T _{stg} | -65 to +150 | °C |

■ **Electrical Characteristics** Ta = 25°C

| Parameter | Symbol | Testconditons | Min | Typ | Max | Unit |
|---|----------------------|---|------|-----|-----|------|
| Collector to emitter breakdown voltage | V _{CEO} | I _C =30mA | 100 | | | V |
| Collector cutoff current | I _{CEO} | V _{CE} =50V | | | 500 | μ A |
| Collector cutoff current | I _{CB0} | V _{CB} = 100 V | | | 200 | μ A |
| Emitter cutoff current | I _{EBO} | V _{EB} = 5.0 V | | | 2.0 | mA |
| DC current gain | h _{FE} | I _C = 500 mA; V _{CE} =3.0 V | 1000 | | | |
| | | I _C = 3A; V _{CE} = 3.0V | 1000 | | | |
| Collector to emitter saturation voltage | V _{CE(sat)} | I _C = 3.0A; I _B = 12mA | | | 2.0 | V |
| Base to emitter saturation voltage | V _{BE(sat)} | I _C = 5.0A; I _B = 20mA | | | 4.0 | V |
| Output capacitance | C _{ob} | V _{CB} = 10 V, I _E = 0, f=1.0MHz | | | 200 | pF |
| Transition frequency | f _T | I _C = 3A; V _{CE} =4V; f = 1.0 MHz | 4.0 | | | MHz |