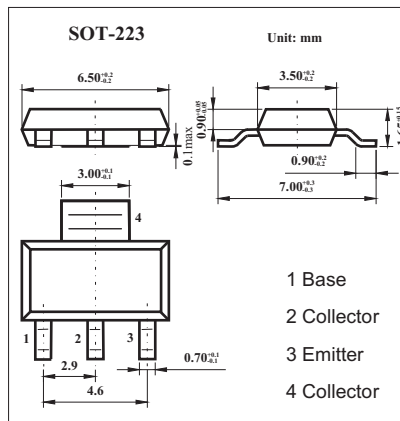


FZT491

■ Features

- Power Dissipation: $P_c=2W$
- Continuous Collector Current: $I_c=1A$



■ Absolute Maximum Ratings $T_a = 25^\circ C$

| Parameter | Symbol | Rating | Unit |
|------------------------------|-----------|-------------|------------|
| Collector-base voltage | V_{CBO} | 80 | V |
| Collector-emitter voltage | V_{CEO} | 60 | V |
| Emitter-base voltage | V_{EBO} | 5 | V |
| Continuous Collector Current | I_c | 1 | A |
| power dissipation | P_c | 2 | W |
| Junction temperature | T_j | 150 | $^\circ C$ |
| Storage temperature | T_{stg} | -55 to +150 | $^\circ C$ |

■ Electrical Characteristics $T_a = 25^\circ C$

| Parameter | Symbol | Test conditons | Min | Typ | Max | Unit |
|---|---------------|--|-----|-----|------|------|
| Collector to base breakdown voltage | V_{CBO} | $I_c=100 \mu A$ | 80 | | | V |
| Collector to emitter breakdown voltage | V_{CEO} | $I_c=10mA$ | 60 | | | V |
| Emitter to base breakdown voltage | V_{EBO} | $I_E=100 \mu A$ | 5 | | | V |
| Collector cutoff current | I_{CBO} | $V_{CB} = 60 V, I_E = 0$ | | | 100 | nA |
| Emitter Cut-Off Current | I_{EBO} | $V_{EB}=4V, I_c=0$ | | | 100 | nA |
| DC current gain | h_{FE} | $I_c = 1.0 mA; V_{CE} = 5V$ | 100 | | | |
| | | $I_c = 500mA; V_{CE} = 5V$ | 100 | | 300 | |
| | | $I_c = 1A; V_{CE} = 5V$ | 80 | | | |
| Collector to emitter saturation voltage | $V_{CE(sat)}$ | $I_c = 500mA; I_B = 50mA$ | | | 0.25 | V |
| | | $I_c = 1A; I_B = 100mA$ | | | 0.5 | V |
| Output capacitance | C_{ob} | $V_{CB} = 10 V, I_E = 0, f=1.0MHz$ | | | 10 | pF |
| Transition frequency | f_T | $I_c = 50 mA; V_{CE} = 10V; f = 100 MHz$ | 150 | | | MHz |

■ Marking

| | |
|---------|-----|
| Marking | 491 |
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