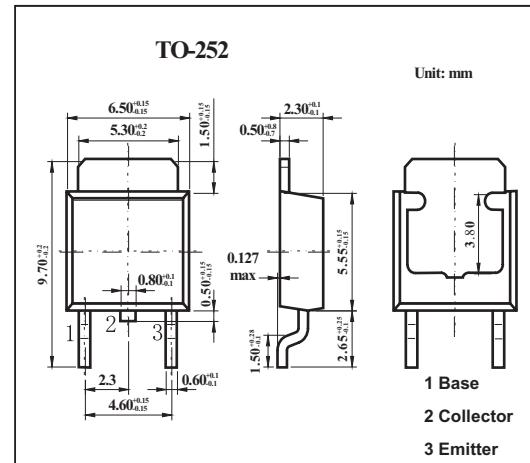


Silicon NPN Triple Diffused

2SC4499S



■ Features

- High speed and high voltage switching

■ Absolute Maximum Ratings Ta = 25°C

| Parameter | Symbol | Rating | Unit |
|------------------------------|------------------|-------------|------|
| Collector to base voltage | V _{CBO} | 500 | V |
| Collector to emitter voltage | V _{CEO} | 400 | V |
| Emitter to base voltage | V _{EBO} | 10 | V |
| Collector current | I _{CP} | 0.5 | A |
| Collector peak current | I _C | 1 | A |
| Collector power dissipation | P _C | 0.75 | W |
| TC=25°C | | 10 | W |
| | | 150 | °C |
| Junction temperature | T _j | -55 to +150 | °C |
| Storage temperature | T _{stg} | | |

■ Electrical Characteristics Ta = 25°C

| Parameter | Symbol | Testconditons | Min | Typ | Max | Unit |
|---|-----------------------|---|-----|-----|-----|------|
| Collector to emitter sustain voltage | V _{CEO(sus)} | I _C = 0.1 A, R _{BE} = ∞, L = 100 mH | 400 | | | V |
| Emitter to base breakdown voltage | V _{(BR)EBO} | I _E = 10 mA, I _C = 0 | 10 | | | V |
| Collector cutoff current | I _{cbo} | V _{CB} = 400 V, I _E = 0 | | 20 | | μA |
| | I _{ceo} | V _{CE} = 350 V, R _{BE} = ∞ | | 50 | | |
| DC current transfer ratio | h _{FE} | V _{CE} = 5 V, I _C = 0.25 A*1 | 12 | | | |
| | | V _{CE} = 5 V, I _C = 0.5 A*1 | 5 | | | |
| Collector to emitter saturation voltage | V _{CE(sat)} | I _C = 0.25 A, I _B = 0.05 A*1 | | 1.0 | | V |
| Base to emitter saturation voltage | V _{BE(sat)} | I _C = 0.25 A, I _B = 0.05 A*1 | | 1.5 | | V |
| Turn on time | t _{on} | I _C = 0.5 A, I _{B1} = -I _{B2} = 0.1 A, | | 1.0 | | μs |
| Storage time | t _{stg} | V _{CC} = 150 V | | 2 | | μs |
| Fall time | t _f | | | 1.0 | | μs |

* 1 Pulse test.