

DTA124TH / DTA124TE / DTA124TUA / DTA124TKA / DTA124TSA

Transistors

●Absolute maximum ratings (Ta=25°C)

| Parameter | Symbol | Limits(DTA124T□) | | | | Unit |
|-----------------------------|------------------|------------------|-----|----|-----|------|
| | | H | E | UA | KA | |
| Collector-base voltage | V _{CB0} | -50 | | | | V |
| Collector-emitter voltage | V _{CE0} | -50 | | | | V |
| Emitter-base voltage | V _{EB0} | -5 | | | | V |
| Collector current | I _c | -100 | | | | mA |
| Collector power dissipation | P _c | 150 | 200 | | 300 | mW |
| Junction temperature | T _j | 150 | | | | °C |
| Storage temperature | T _{stg} | -55~+150 | | | | °C |

●Electrical characteristics (Ta=25°C)

| Parameter | Symbol | Min. | Typ. | Max. | Unit | Conditions |
|--------------------------------------|----------------------|------|------|------|------|--|
| Collector-base breakdown voltage | BV _{CB0} | -50 | - | - | V | I _c =-50μA |
| Collector-emitter breakdown voltage | BV _{CE0} | -50 | - | - | V | I _c =-1mA |
| Emitter-base breakdown voltage | BV _{EB0} | -5 | - | - | V | I _E =-50μA |
| Collector cutoff current | I _{cBO} | - | - | -0.5 | μA | V _{CB} =-50V |
| Emitter cutoff current | I _{EBO} | - | - | -0.5 | μA | V _{EB} =-4V |
| Collector-emitter saturation voltage | V _{CE(sat)} | - | - | -0.3 | V | I _c /I _B =-5mA/-0.5mA |
| DC current transfer ratio | h _{FE} | 100 | 250 | 600 | - | V _{CE} =-5V, I _c =-1mA |
| Input resistance | R _i | 15.4 | 22 | 28.6 | kΩ | - |
| Transition frequency | f _r | - | 250 | - | MHz | V _{CE} =-10V, I _E =5mA, f=100MHz * |

* Transition frequency of the device

●Packaging specifications

| Part No. | Package | EMT3H | EMT3 | UMT3 | SMT3 | SPT |
|-----------|------------------------------|--------|--------|--------|--------|--------|
| | Package type | Taping | Taping | Taping | Taping | Taping |
| | Code | T2L | TL | T106 | T146 | TP |
| | Basic ordering unit (pieces) | 8000 | 3000 | 3000 | 3000 | 5000 |
| DTA124TH | | ○ | - | - | - | - |
| DTA124TE | | - | ○ | - | - | - |
| DTA124TUA | | - | - | ○ | - | - |
| DTA124TKA | | - | - | - | ○ | - |
| DTA124TSA | | - | - | - | - | ○ |

●Electrical characteristic curves

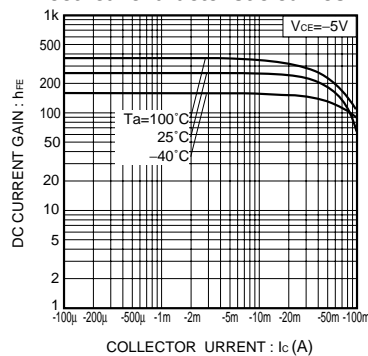


Fig.1 DC current gain vs. collector current

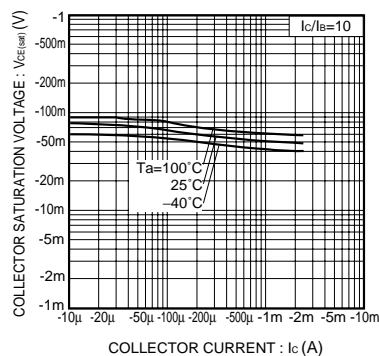


Fig.2 Collector-emitter saturation voltage vs. collector current

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