

Characteristics**Kennwerte**

| | | (T _j = 25°C) | Min. | Typ. | Max. |
|---|--|-------------------------|-----------------------|------|--------|
| Collector-Emitter saturation voltage – Kollektor-Sättigungsspannung ¹⁾ | | | | | |
| I _C = 10 mA, I _B = 1 mA | V _{CEsat} | | – | – | 0.2 V |
| I _C = 50 mA, I _B = 5 mA | | | – | – | 0.3 V |
| Base-Emitter saturation voltage – Basis-Sättigungsspannung ¹⁾ | | | | | |
| I _C = 10 mA, I _B = 1 mA | V _{BEsat} | | 0.65 V | – | 0.85 V |
| I _C = 50 mA, I _B = 5 mA | | | – | – | 0.95 V |
| Collector-Base cutoff current – Kollektor-Basis-Reststrom | | | | | |
| V _{CE} = 30 V, V _{EB} = 3 V | I _{CBX} | | – | – | 50 nA |
| Emitter-Base cutoff current – Emitter-Basis-Reststrom | | | | | |
| V _{CE} = 30 V, - V _{EB} = 3 V | I _{EBV} | | – | – | 50 nA |
| Gain-Bandwidth Product – Transitfrequenz | | | | | |
| I _C = 10 mA, V _{CE} = 20 V, f = 100 MHz | f _T | | 300 MHz | – | – |
| Collector-Base Capacitance – Kollektor-Basis-Kapazität | | | | | |
| V _{CB} = 5 V, I _E = i _e = 0, f = 1 MHz | C _{CB0} | | – | – | 4 pF |
| Emitter-Base Capacitance – Emitter-Basis-Kapazität | | | | | |
| V _{EB} = 0.5 V, I _C = i _c = 0, f = 1 MHz | C _{EBO} | | – | – | 8 pf |
| Switching times – Schaltzeiten (between 10% and 90% levels) | | | | | |
| delay time | V _{CC} = 3 V, V _{BE} = 0.5 V I _C = 10 mA, I _{B1} = 1 mA | t _d | – | – | 35 ns |
| rise time | | t _r | – | – | 35 ns |
| storage time | V _{CC} = 3 V, I _C = 10 mA, I _{B1} = I _{B2} = 1 mA | t _s | – | – | 200 ns |
| fall time | | t _f | – | – | 50 ns |
| Typical thermal resistance junction to ambient Typischer Wärmewiderstand Sperrschicht – Umgebung | | R _{thA} | 357 K/W ²⁾ | | |

Disclaimer: See data book page 2 or [website](#)

Haftungsausschluss: Siehe Datenbuch Seite 2 oder [Internet](#)

¹ Tested with pulses t_p = 300 μs, duty cycle ≤ 2% – Gemessen mit Impulsen t_p = 300 μs, Schaltverhältnis ≤ 2%

² Valid, if leads are kept at ambient temperature
Gültig, wenn die Anschlüsse auf Umgebungstemperatur gehalten werden