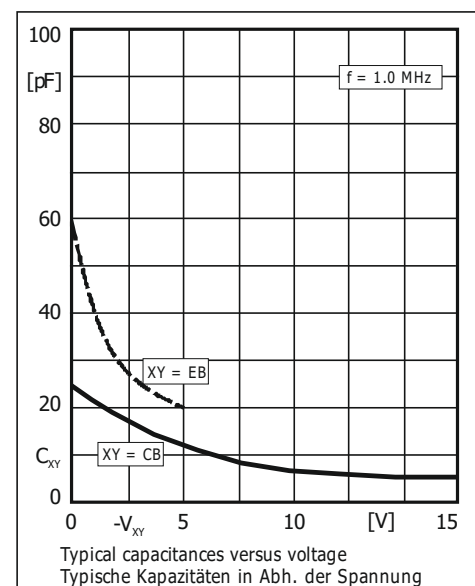
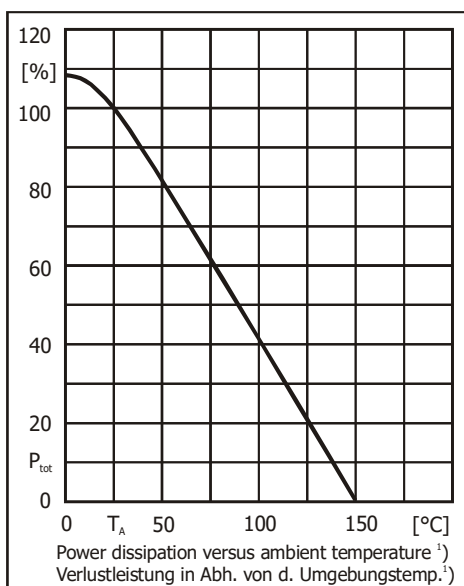




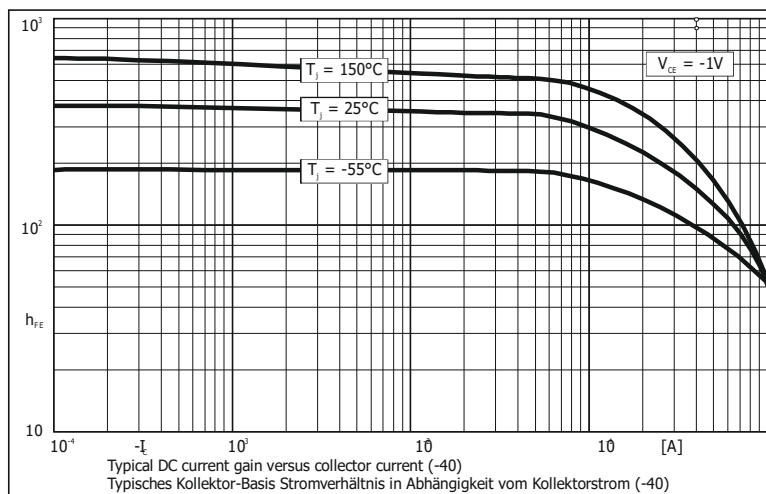
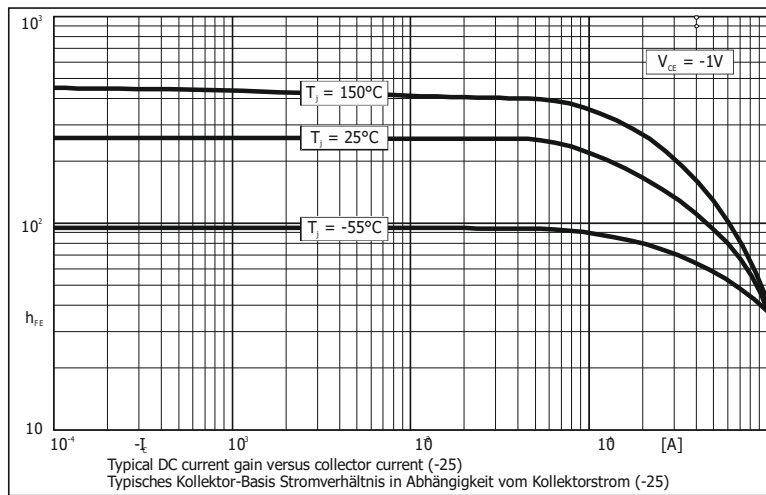
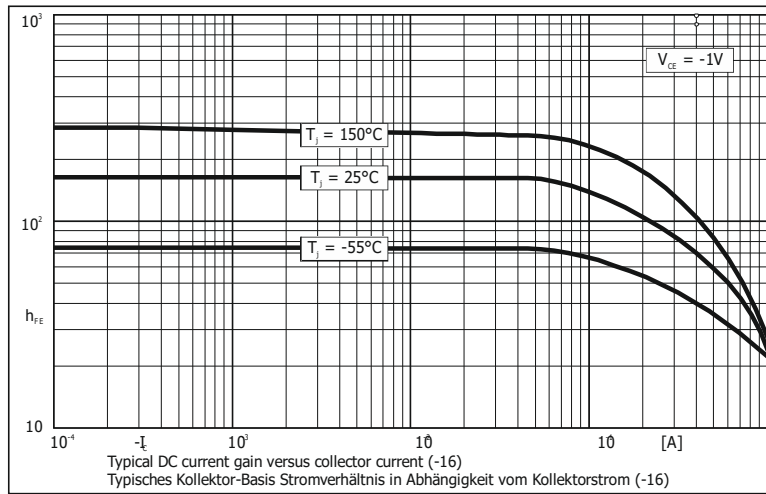
**Characteristics**
**Kennwerte**

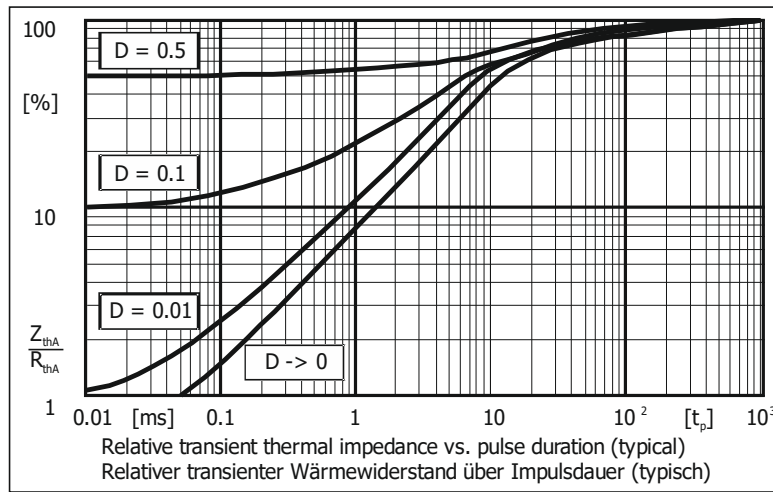
		$T_j = 25^\circ\text{C}$	<b>Min.</b>	<b>Typ.</b>	<b>Max.</b>
DC current gain – Kollektor-Basis-Stromverhältnis <sup>1)</sup>					
- $V_{CE} = 1\text{ V}$ , - $I_C = 100\text{ mA}$	Group -16	$h_{FE}$	100	–	250
	Group -25		160	–	400
	Group -40		250	–	630
- $V_{CE} = 1\text{ V}$ , - $I_C = 500\text{ mA}$		$h_{FE}$	40	–	–
Collector-Emitter saturation voltage – Kollektor-Emitter-Sättigungsspg. <sup>2)</sup>					
- $I_C = 500\text{ mA}$ , - $I_B = 50\text{ mA}$		- $V_{CEsat}$	–	–	0.7 V
Base-Emitter saturation voltage – Basis-Emitter-Sättigungsspannung <sup>2)</sup>					
- $I_C = 500\text{ mA}$ , - $I_B = 50\text{ mA}$		- $V_{BEsat}$	–	–	1.3 V
Base-Emitter-voltage – Basis-Emitter-Spannung <sup>2)</sup>					
- $V_{CE} = 1\text{ V}$ , - $I_C = 500\text{ mA}$		- $V_{BE}$	–	–	1.2 V
Collector-Base cutoff current – Kollektor-Basis-Reststrom					
- $V_{CB} = 20\text{ V}$ , (E open)		- $I_{CB0}$	–	–	100 nA
- $V_{CB} = 20\text{ V}$ , $T_j = 125^\circ\text{C}$ , (E open)			–	–	5 $\mu\text{A}$
Emitter-Base cutoff current – Emitter-Basis-Reststrom					
- $V_{EB} = 4\text{ V}$ , (C open)		- $I_{EB0}$	–	–	100 nA
Gain-Bandwidth Product – Transitfrequenz					
- $V_{CE} = 5\text{ V}$ , - $I_C = 10\text{ mA}$ , $f = 50\text{ MHz}$		$f_T$	–	100 MHz	–
Collector-Base Capacitance – Kollektor-Basis-Kapazität					
- $V_{CB} = 10\text{ V}$ , - $I_E = I_E = 0$ , $f = 1\text{ MHz}$		$C_{CBO}$	–	12 pF	–
Thermal resistance junction to ambient Wärmewiderstand Sperrschicht – Umgebung		$R_{thA}$	< 420 K/W <sup>2)</sup>		



1 Tested with pulses  $t_p = 300\ \mu\text{s}$ , duty cycle  $\leq 2\%$  – Gemessen mit Impulsen  $t_p = 300\ \mu\text{s}$ , Schaltverhältnis  $\leq 2\%$

2 Mounted on P.C. board with 3 mm<sup>2</sup> copper pad at each terminal  
 Montage auf Leiterplatte mit 3 mm<sup>2</sup> Kupferbelag (Löt-pad) an jedem Anschluss





**Disclaimer:** See data book page 2 or [website](#)  
**Haftungsausschluss:** Siehe Datenbuch Seite 2 oder [Internet](#)