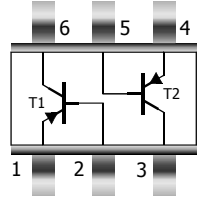


Characteristics ($T_j = 25^\circ\text{C}$)
Kennwerte ($T_j = 25^\circ\text{C}$)

per transistor – pro Transistor	Min.	Typ.	Max.
Collector-Emitter saturation voltage – Kollektor-Sättigungsspannung ²⁾ - $I_C = 10\text{ mA}$, - $I_B = 0.5\text{ mA}$ - $I_C = 100\text{ mA}$, - $I_B = 5\text{ mA}$	- -	90 mV 200 mV	250 mV 600 mV
Base-Emitter saturation voltage – Basis-Sättigungsspannung ²⁾ - $I_C = 10\text{ mA}$, - $I_B = 0.5\text{ mA}$ - $I_C = 100\text{ mA}$, - $I_B = 5\text{ mA}$	- -	700 mV 900 mV	- -
Base-Emitter-voltage – Basis-Emitter-Spannung ²⁾ - $V_{CE} = 5\text{ V}$, - $I_C = 2\text{ mA}$ - $V_{CE} = 5\text{ V}$, - $I_C = 10\text{ mA}$	- V_{BE} - V_{BE}	600 mV -	650 mV 820 mV
Collector-Base cutoff current – Kollektor-Basis-Reststrom - $V_{CB} = 30\text{ V}$, (E open) - $V_{CE} = 30\text{ V}$, $T_j = 125^\circ\text{C}$, (E open)	- I_{CB0} - I_{CB0}	- -	15 nA 5 μA
Emitter-Base cutoff current - $V_{EB} = 5\text{ V}$, (C open)	- I_{EB0}	-	100 nA
Gain-Bandwidth Product – Transitfrequenz - $V_{CE} = 5\text{ V}$, - $I_C = 10\text{ mA}$, $f = 100\text{ MHz}$	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_{CB0}	-	6 pF
Emitter-Base Capacitance – Emitter-Basis-Kapazität - $V_{EB} = 0.5\text{ V}$, $I_C = i_c = 0$, $f = 1\text{ MHz}$	C_{EB0}	-	10 pF
Thermal resistance junction to ambient air Wärmewiderstand Sperrschicht – umgebende Luft	R_{thA}	< 420 K/W ¹⁾	
Recommended complementary NPN transistors Empfohlene komplementäre NPN-Transistoren	BC846S ... BC849S		
Pinning – Anschlussbelegung T1: E1 = 1, C1 = 6, B1 = 2 T2: E2 = 4, C2 = 3, B2 = 5			

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

¹⁾ Mounted on P.C. board with 3 mm^2 copper pad at each terminal
 Montage auf Leiterplatte mit 3 mm^2 Kupferbelag (Löt-pad) an jedem Anschluss