

Characteristics, $T_j = 25^\circ\text{C}$

Kennwerte, $T_j = 25^\circ\text{C}$

	Min.	Typ.	Max.
Collector saturation voltage – Kollektor-Sättigungsspg. - $I_C = 500\text{ mA}$, - $I_B = 50\text{ mA}$ - V_{CEsat}	–	–	0.7 V
Base saturation voltage – Basis-Sättigungsspannung - $I_C = 500\text{ mA}$, - $I_B = 50\text{ mA}$ - V_{BEsat}	–	–	1.3 V
Base-Emitter voltage – Basis-Emitter-Spannung - $V_{CE} = 1\text{ V}$, - $I_C = 500\text{ mA}$ - V_{BE}	–	–	1.2 V
Collector-Base cutoff current – Kollektorreststrom $I_E = 0$, - $V_{CB} = 20\text{ V}$ - I_{CB0}	–	–	100 nA
$I_E = 0$, - $V_{CB} = 20\text{ V}$, $T_j = 150^\circ\text{C}$ - I_{CB0}	–	–	5 μA
Emitter-Base cutoff current – Emitterreststrom $I_C = 0$, - $V_{EB} = 4\text{ V}$ - I_{EB0}	–	–	100 nA
Gain-Bandwidth Product – Transitfrequenz - $V_{CE} = 5\text{ V}$, - $I_C = 10\text{ mA}$, $f = 50\text{ MHz}$ f_T	80 MHz	100 MHz	–
Collector-Base Capacitance – Kollektor-Basis-Kapazität - $V_{CB} = 10\text{ V}$, $I_E = i_e = 0$, $f = 1\text{ MHz}$ C_{CB0}	–	10 pF	–
Thermal resistance junction to ambient air Wärmewiderstand Sperrschicht – umgebende Luft	R_{thA}		620 K/W ¹⁾
Recommended complementary NPN transistors Empfohlene komplementäre NPN-Transistoren	BC 817W / BC 818W		

Marking of available current gain groups per type	BC 807-16W = 5A	BC 807-25W = 5B	BC 807-40W = 5C
	BC 807W = 5D		
Stempelung der lieferbaren Stromverstärkungsgruppen pro Typ	BC 808-16W = 5E	BC 808-25W = 5F	BC 808-40W = 5G
	BC 808W = 5H		

¹⁾ Mounted on P.C. board with 3 mm² copper pad at each terminal
Montage auf Leiterplatte mit 3 mm² Kupferbelag (Löt-pad) an jedem Anschluß