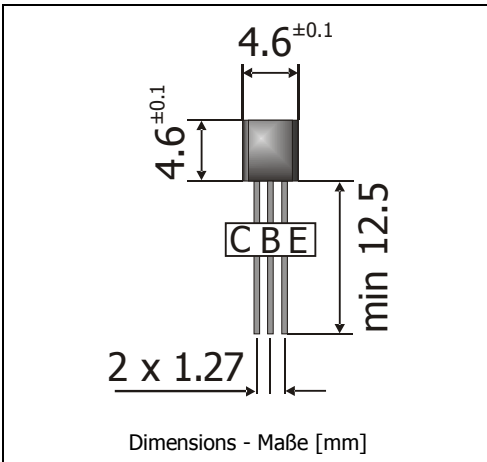


**BC327-xBK / BC328-xBK**  
**General Purpose Si-Epitaxial Planar Transistors**  
**Si-Epitaxial Planar-Transistoren für universellen Einsatz**

**PNP**

**PNP**

Version 2010-06-23



Power dissipation Verlustleistung	625 mW
Plastic case Kunststoffgehäuse	TO-92 (10D3)
Weight approx. – Gewicht ca.	0.18 g
Plastic material has UL classification 94V-0 Gehäusematerial UL94V-0 klassifiziert	
Special packaging bulk Sonder-Lieferform Schüttgut	

**Maximum ratings (T<sub>A</sub> = 25°C)**

**Grenzwerte (T<sub>A</sub> = 25°C)**

			<b>BC327</b>	<b>BC328</b>
Collector-Emitter-volt. – Kollektor-Emitter-Spannung	E-B short	- V <sub>CES</sub>	50 V	30 V
Collector-Emitter-volt. – Kollektor-Emitter-Spannung	B open	- V <sub>CEO</sub>	45 V	25 V
Emitter-Base-voltage – Emitter-Basis-Spannung	C open	- V <sub>EBO</sub>	5 V	
Power dissipation – Verlustleistung		P <sub>tot</sub>	625 mW <sup>1)</sup>	
Collector current – Kollektorstrom (dc)		- I <sub>C</sub>	800 mA	
Peak Collector current – Kollektor-Spitzenstrom		- I <sub>CM</sub>	1 A	
Base current – Basisstrom		- I <sub>B</sub>	100 mA	
Junction temperature – Sperrschichttemperatur		T <sub>j</sub>	-55...+150°C	
Storage temperature – Lagerungstemperatur		T <sub>S</sub>	-55...+150°C	

**Characteristics (T<sub>j</sub> = 25°C)**

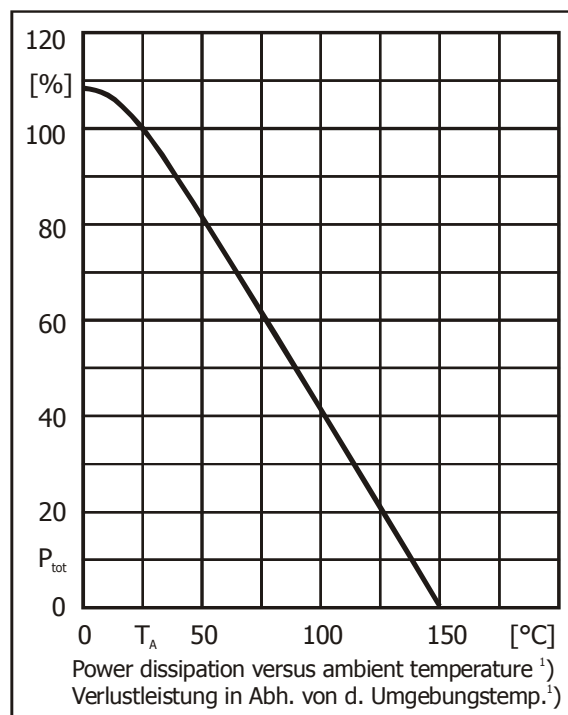
**Kennwerte (T<sub>j</sub> = 25°C)**

			<b>Min.</b>	<b>Typ.</b>	<b>Max.</b>
DC current gain – Kollektor-Basis-Stromverhältnis <sup>2)</sup>					
- V <sub>CE</sub> = 1 V, - I <sub>C</sub> = 100 mA	Group -16	h <sub>FE</sub>	100	160	250
	Group -25	h <sub>FE</sub>	160	250	400
	Group -40	h <sub>FE</sub>	250	400	630
- V <sub>CE</sub> = 1 V, - I <sub>C</sub> = 300 mA	Group -16	h <sub>FE</sub>	60	130	–
	Group -25	h <sub>FE</sub>	100	200	–
	Group -40	h <sub>FE</sub>	170	320	–
Collector-Emitter saturation voltage – Kollektor-Emitter-Sättigungsspg. <sup>2)</sup>					
- I <sub>C</sub> = 500 mA, - I <sub>B</sub> = 50 mA		- V <sub>CEsat</sub>	–	–	0.7 V

1 Valid, if leads are kept at ambient temperature at a distance of 2 mm from case  
 Gültig wenn die Anschlussdrähte in 2 mm Abstand vom Gehäuse auf Umgebungstemperatur gehalten werden  
 2 Tested with pulses t<sub>p</sub> = 300 μs, duty cycle ≤ 2% – Gemessen mit Impulsen t<sub>p</sub> = 300 μs, Schaltverhältnis ≤ 2%

**Characteristics (T<sub>j</sub> = 25°C)**
**Kennwerte (T<sub>j</sub> = 25°C)**

		<b>Min.</b>	<b>Typ.</b>	<b>Max.</b>
Base-Emitter-voltage – Basis-Emitter-Spannung <sup>2)</sup> - V <sub>CE</sub> = 1 V, - I <sub>C</sub> = 300 mA,	- V <sub>BE</sub>	–	–	1.2 V
Collector-Emitter cutoff current – Kollektor-Emitter-Reststrom				
- V <sub>CE</sub> = 45 V, (B-E short)	BC327 - I <sub>CES</sub>	–	2 nA	100 nA
- V <sub>CE</sub> = 25 V, (B-E short)	BC328 - I <sub>CES</sub>	–	2 nA	100 nA
- V <sub>CE</sub> = 45 V, T <sub>j</sub> = 125°C, (B-E short)	BC327 - I <sub>CES</sub>	–	–	10 μA
- V <sub>CE</sub> = 25 V, T <sub>j</sub> = 125°C, (B-E short)	BC328 - I <sub>CES</sub>	–	–	10 μA
Gain-Bandwidth Product – Transitfrequenz				
- V <sub>CE</sub> = 5 V, - I <sub>C</sub> = 10 mA, f = 50 MHz	f <sub>T</sub>	–	100 MHz	–
Collector-Base Capacitance – Kollektor-Basis-Kapazität				
- V <sub>CB</sub> = 10 V, I <sub>E</sub> = i <sub>e</sub> = 0, f = 1 MHz	C <sub>CBO</sub>	–	12 pF	–
Thermal resistance junction to ambient air Wärmewiderstand Sperrschicht – umgebende Luft	R <sub>thA</sub>	< 200 K/W <sup>1)</sup>		
Recommended complementary NPN transistors Empfohlene komplementäre NPN-Transistoren		BC337 / BC338		
Available current gain groups per type Lieferbare Stromverstärkungsgruppen pro Typ		BC327-16 BC327-25 BC327-40	BC328-16 BC328-25 BC328-40	



<sup>2)</sup> Tested with pulses t<sub>p</sub> = 300 μs, duty cycle ≤ 2% – Gemessen mit Impulsen t<sub>p</sub> = 300 μs, Schaltverhältnis ≤ 2%

<sup>1)</sup> Valid, if leads are kept at ambient temperature at a distance of 2 mm from case

Gültig wenn die Anschlussdrähte in 2 mm Abstand vom Gehäuse auf Umgebungstemperatur gehalten werden

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