

Gleichstrom-Meßwerte, $t_{amb} = 25^\circ\text{C}$

1. Arbeitspunkt $-U_{CE} = 7 \text{ V}$, $-I_C = 60 \text{ mA}$

Basisspannung	$-U_{BE}$	270	mV
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2. Arbeitspunkt $-U_{CE} = 1 \text{ V}$, $-I_C = 200 \text{ mA}$

Basisstrom	$-I_B$	3	mA
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Basisspannung	$-U_{BE}$	370	mA
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3. Arbeitspunkt $-U_{CE} = 1 \text{ V}$, $-I_C = 1400 \text{ mA}$

Basisstrom	$-I_B$	55 < 90	mA
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Basisspannung	$-U_{BE}$	850 < 1100	mV
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Restströme

Collectorreststrom, $-U_{CB} = 6 \text{ V}$ Emitter offen	$-I_{cbo}$	10 < 25	μA
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Collectorreststrom, $-U_{Ck} = 6 \text{ V}$ Emitter-Basis kurzgeschlossen	$-I_{ck}$	30 < 80	μA
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Collectorreststrom, $-U_{CE} = 6 \text{ V}$ Basis offen	$-I_{ceo}$	350 < 1000	μA
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Wärme-Innenwiderstand

$R_{i\text{therm}}$	$\leq 7,5$	$^\circ\text{C/W}$
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Bedingungen für paarweise Lieferung

Statische Werte

Arbeitspunkt: $-I_C = 1400 \text{ mA}$, $-U_{CE} = 1 \text{ V}$

Unterschiede zwischen beiden Transistoren:

Spannung Basis-Emitter	ΔU_{BE}	< 50	mV
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Stromverstärkungsfaktor $= B = \frac{-I_C}{-I_B}$	ΔB	< + 20	%
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Arbeitspunkt: $-I_C = 60 \text{ mA}$, $-U_{CE} = 7 \text{ V}$

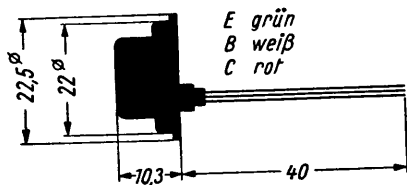
Unterschied zwischen beiden Transistoren:

ΔU_{BE}	< 15	mV
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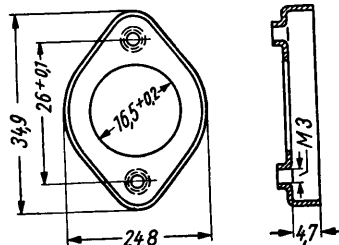
Grenzwerte, absolute Maxima

Spannung zwischen Collector und Emitter bei offener Basis	$-U_{CE0}$	30	V
Spannung zwischen Collector und Emitter bei kurzgeschlossener Basis-Emitter-Strecke	$-U_{CK}$	40	V
Spannung zwischen Collector und Basis bei offenem Emitter	$-U_{CB0}$	40	V
Spannung zwischen Emitter und Basis bei offenem Collector	$-U_{EB0}$	10	V
Collectorspitzenstrom, Impulsbreite < 1 ms, Impulsfolge 45 Hz	$-I_C$	3	A
Collector- + Emitter-Verlustleistung, $t_{\text{Gehäuse}} = 45^\circ\text{C}$	P_{C+E}	4	W
Sperrschichttemperatur	t_j	75	$^\circ\text{C}$

max. Abmessungen

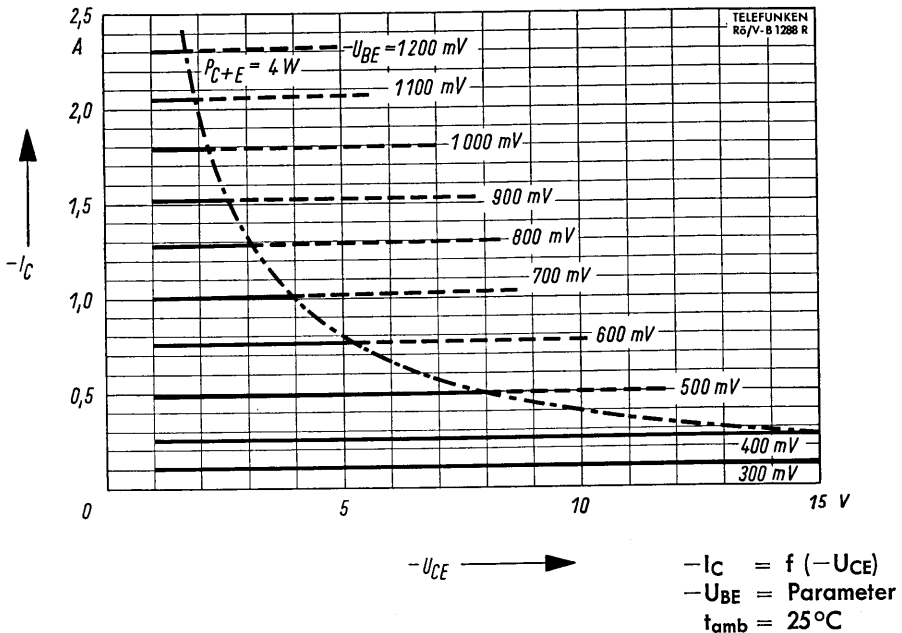
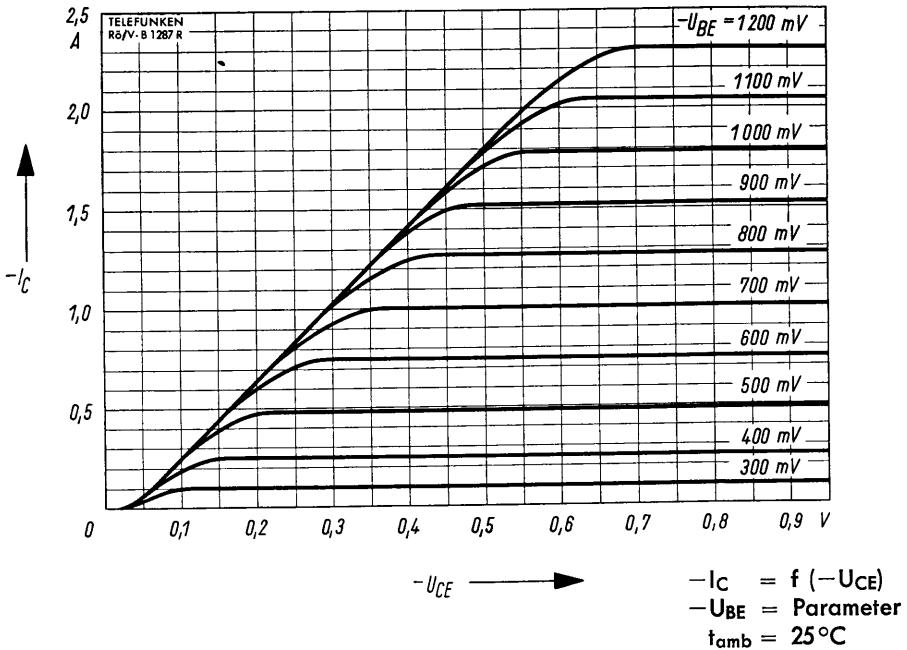


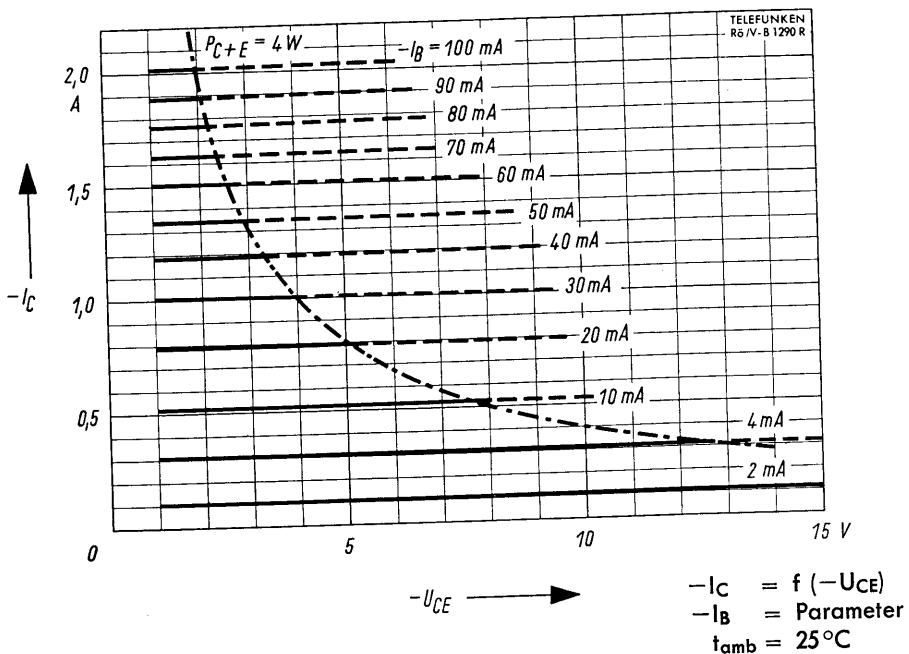
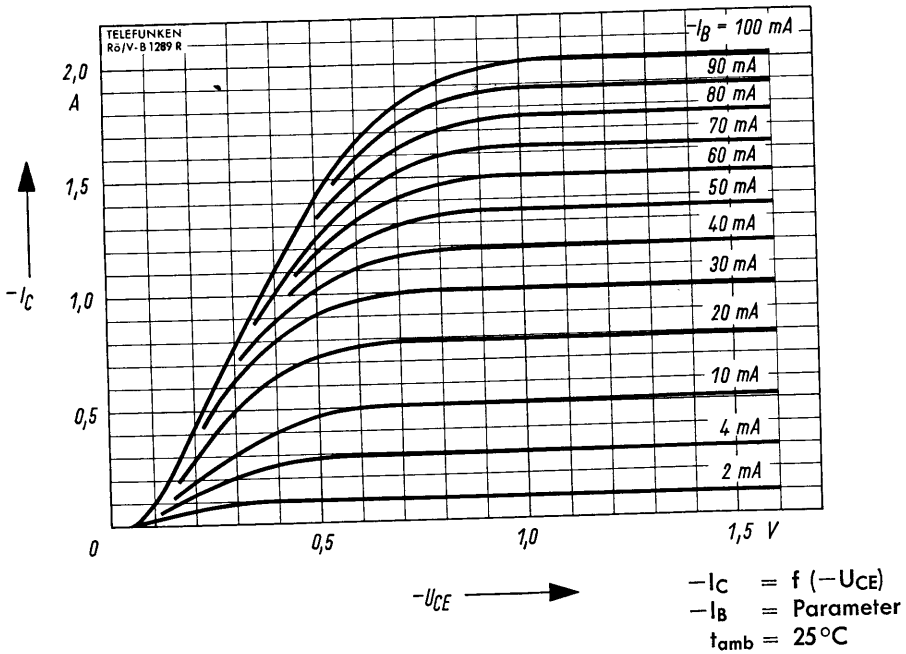
Gewicht: max. 12 g

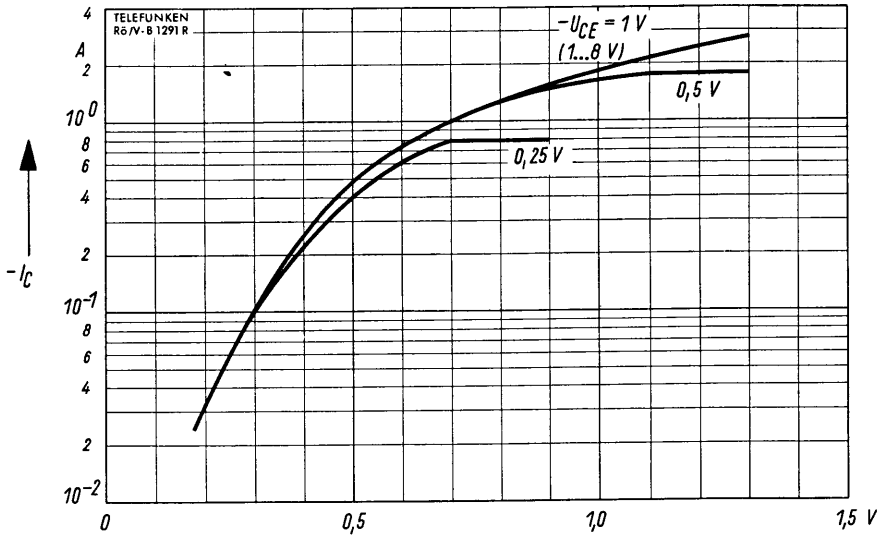


Befestigungsflansch



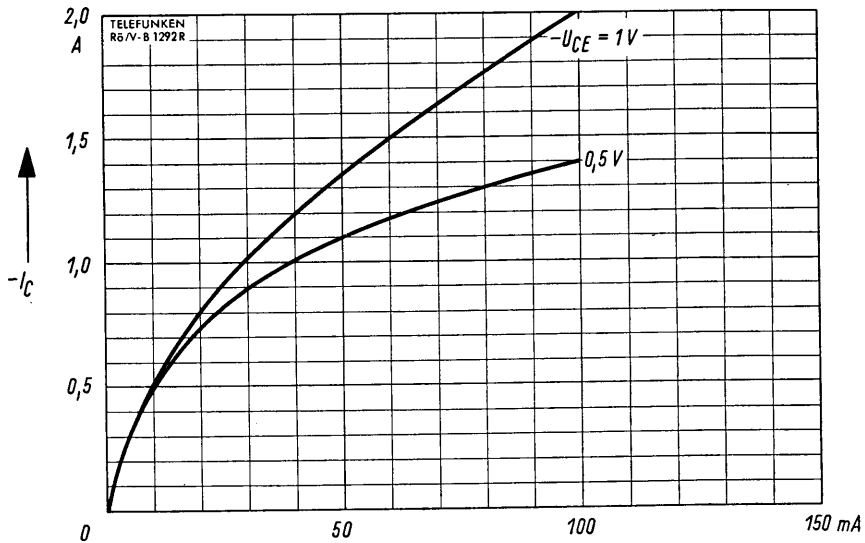






$-U_{BE}$ →

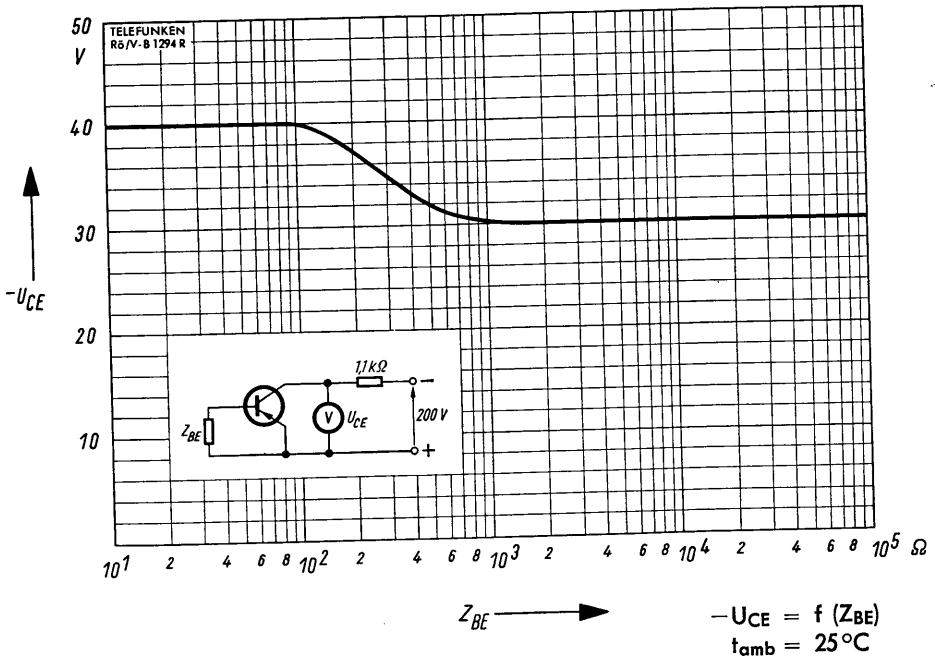
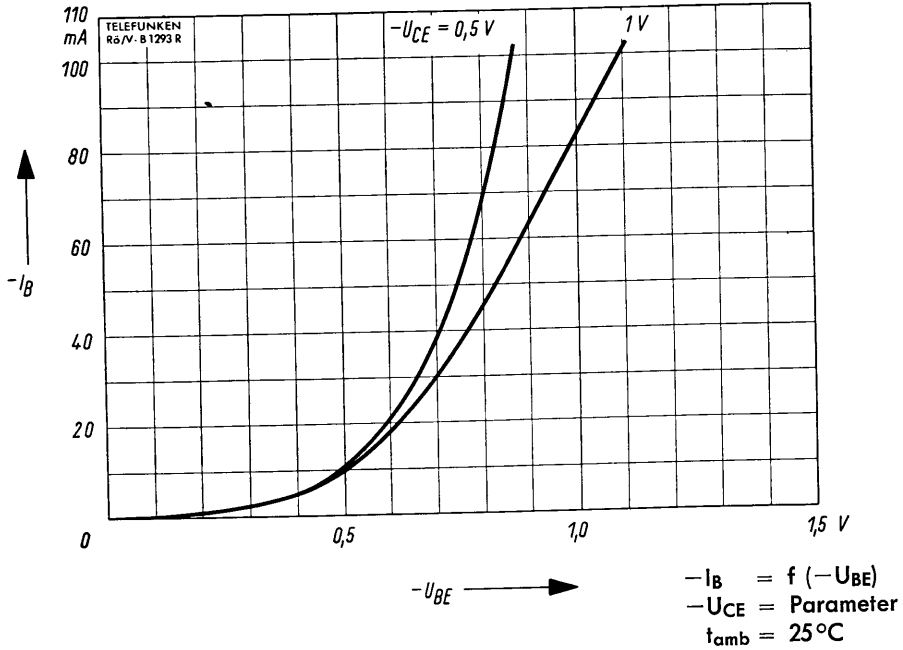
$-I_C = f(-U_{BE})$
 $-U_{CE} = \text{Parameter}$
 $t_{amb} = 25^\circ C$

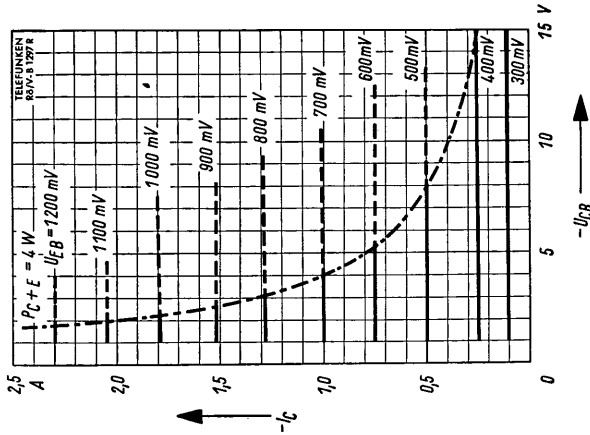


$-I_B$ →

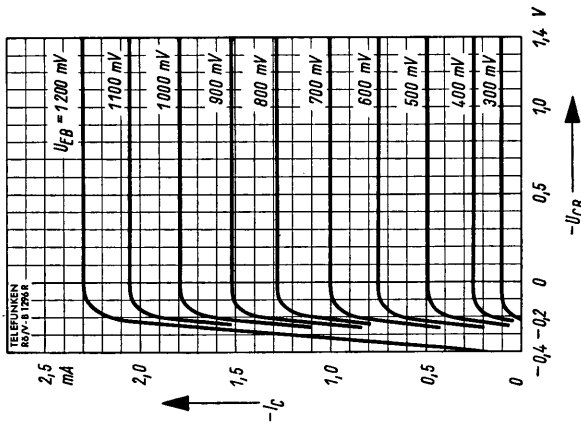
$-I_C = f(-I_B)$
 $-U_{CE} = \text{Parameter}$
 $t_{amb} = 25^\circ C$



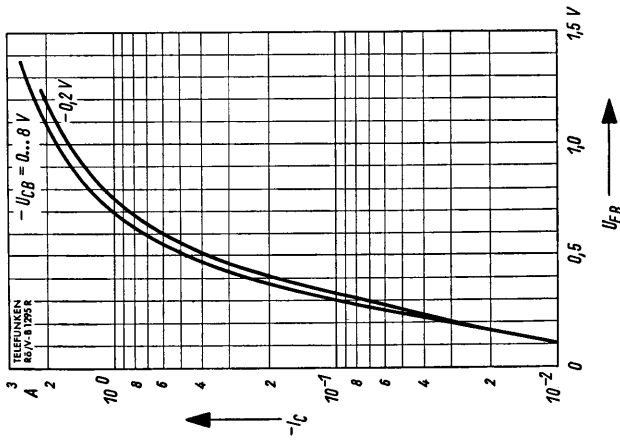




$-I_C = f(-U_{CB})$
 $U_{EB} = \text{Parameter}$
 $t_{amb} = 25^\circ C$



$-I_C = f(-U_{CB})$
 $U_{EB} = \text{Parameter}$
 $t_{amb} = 25^\circ C$



$-I_C = f(U_{EB})$
 $-U_{CB} = \text{Parameter}$
 $t_{amb} = 25^\circ C$



Gleichstrom-Meßwerte, $t_{amb} = 25^{\circ}\text{C}$

1. Arbeitspunkt $-U_{CE} = 1\text{ V}$, $-I_C = 100\text{ mA}$

Basisstrom	$-I_B$	3	mA
Basisspannung	$-U_{BE}$	370	mV

2. Arbeitspunkt $-U_{CE} = 1\text{ V}$, $-I_C = 500\text{ mA}$

Basisstrom	$-I_B$	20 < 32	mA
Basisspannung	$-U_{BE}$	700 < 1100	mV

Restströme

Collectorreststrom, $-U_{CB} = 6\text{ V}$ Emitter offen	$-I_{cbo}$	10 < 25	μA
Collectorreststrom, $-U_{CK} = 6\text{ V}$ Emitter-Basis kurzgeschlossen	$-I_{ck}$	25 < 80	μA
Collectorreststrom, $-U_{CE} = 6\text{ V}$ Basis offen	$-I_{ceo}$	300 < 1000	μA

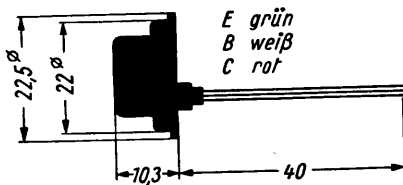
Wärme-Innenwiderstand

$R_{i\text{therm}}$	$\leq 7,5$	$^{\circ}\text{C/W}$
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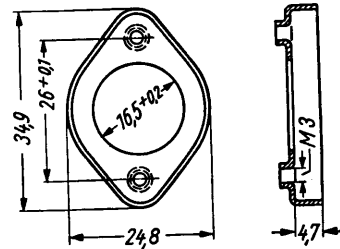


Grenzwerte, absolute Maxima

Spannung zwischen Collector und Emitter bei offener Basis	$-U_{CE0}$	50	V
Spannung zwischen Collector und Emitter bei kurzgeschlossener Basis-Emitter-Strecke	$-U_{Ck}$	60	V
Spannung zwischen Collector und Basis bei offenem Emitter	$-U_{CB0}$	60	V
Spannung zwischen Emitter und Basis bei offenem Collector	$-U_{EB0}$	30	V
Collectorspitzenstrom, Impulsbreite < 1 ms, Impulsfolge 125 Hz	$-I_C$	1	A
Collector- + Emitter-Verlustleistung, $t_{\text{Gehäuse}} = 45^\circ\text{C}$	P_{C+E}	4	W
Sperrschichttemperatur	t_j	75	$^\circ\text{C}$

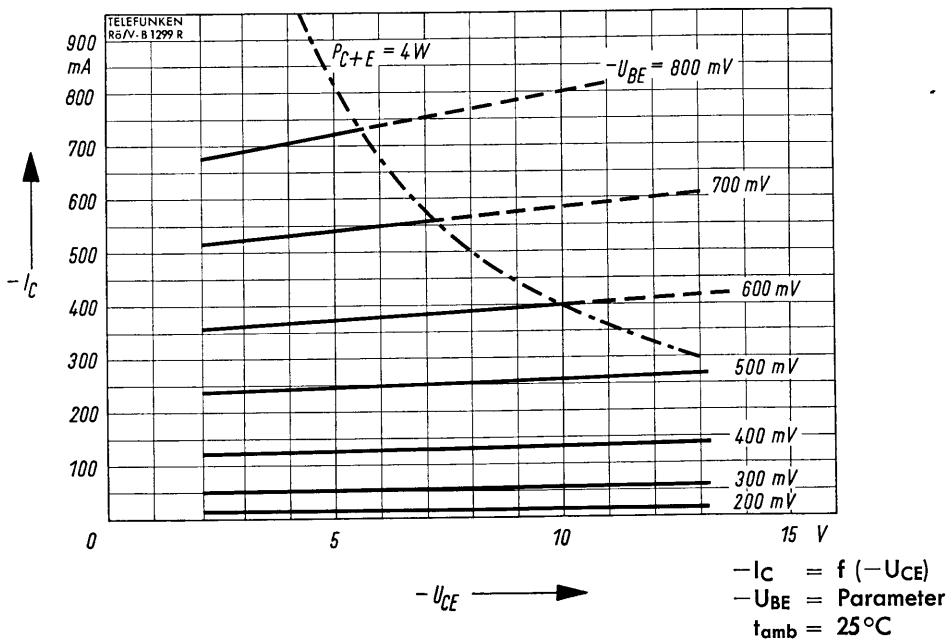
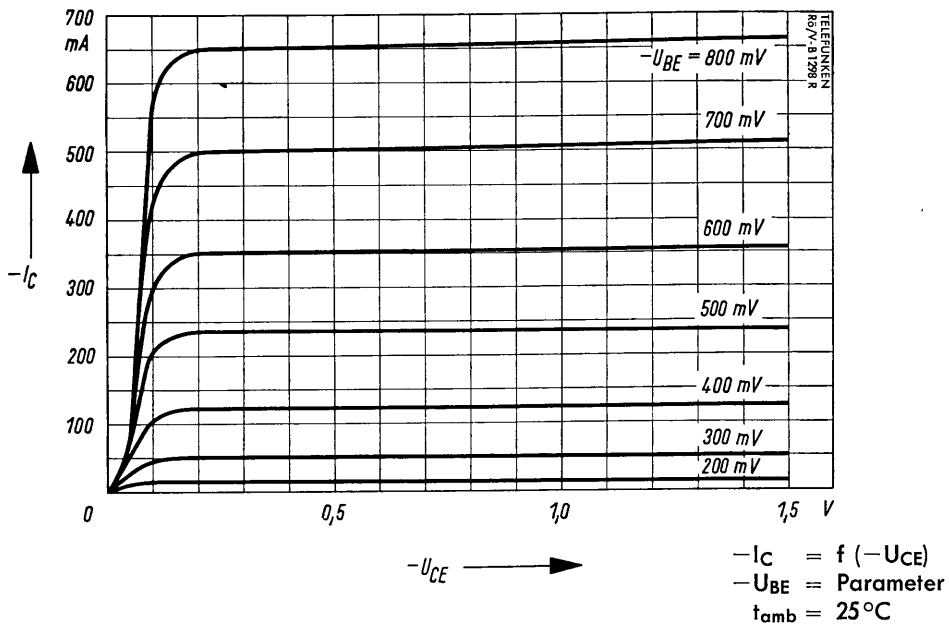
max. Abmessungen

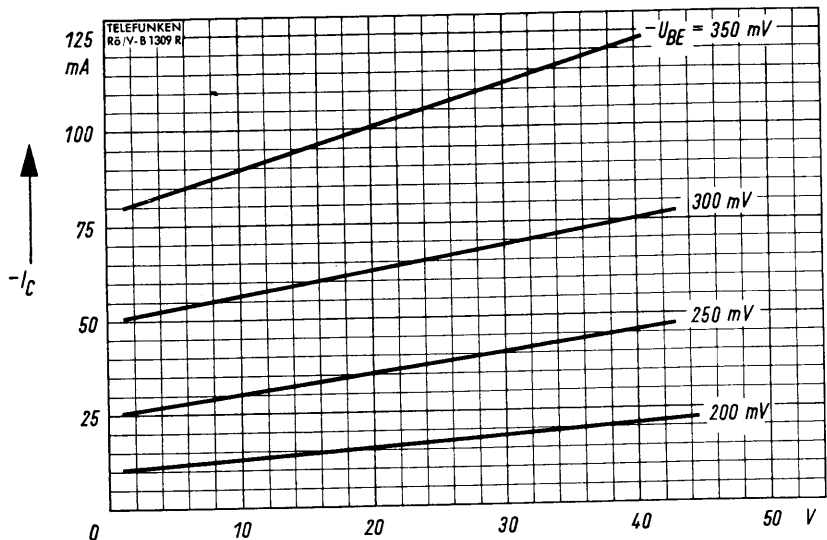
Gewicht: max. 12 g



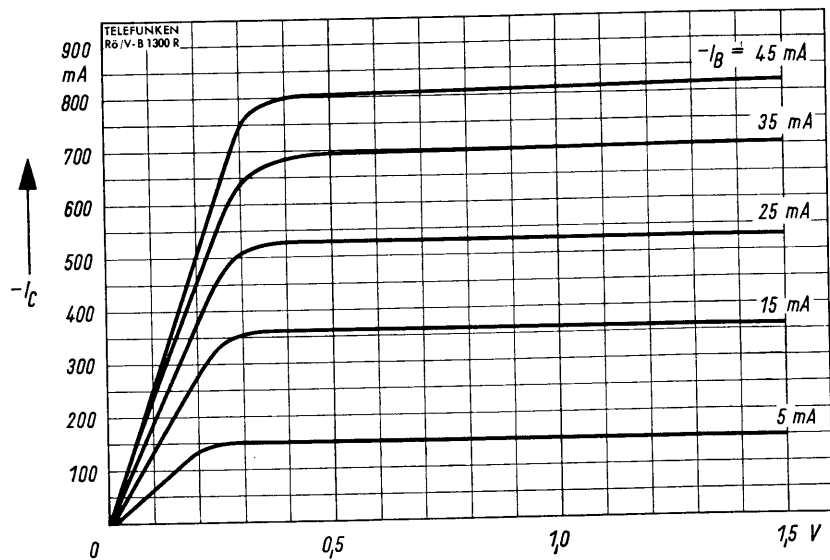
Befestigungsflansch





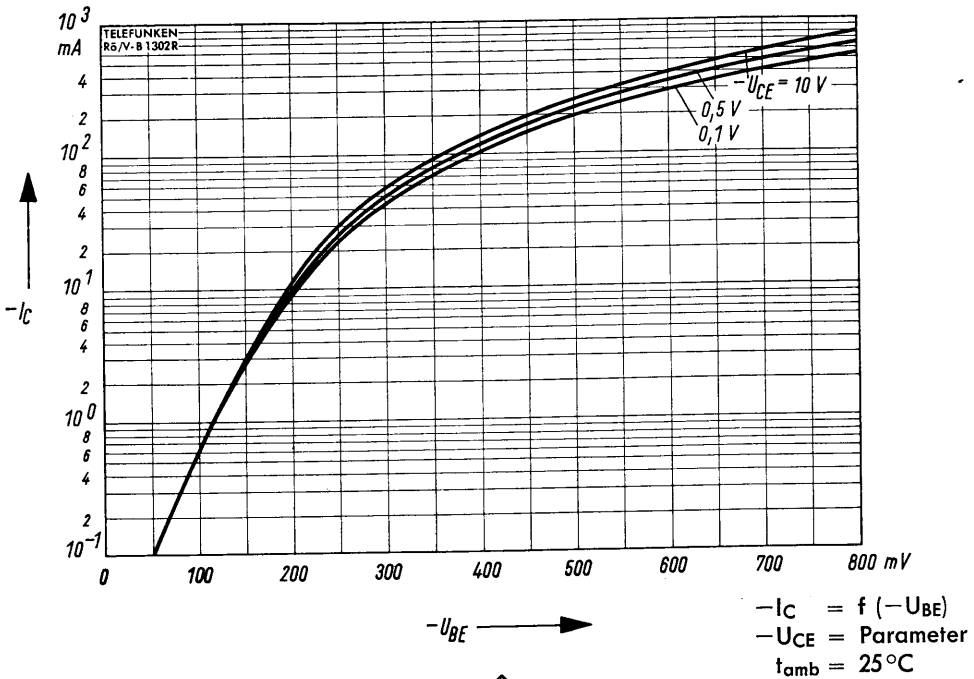
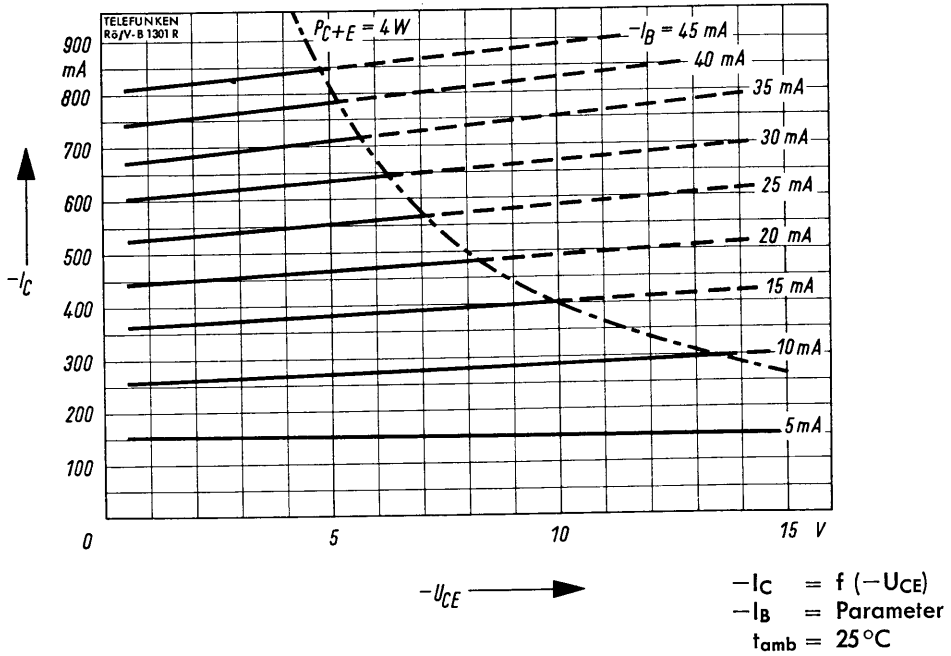


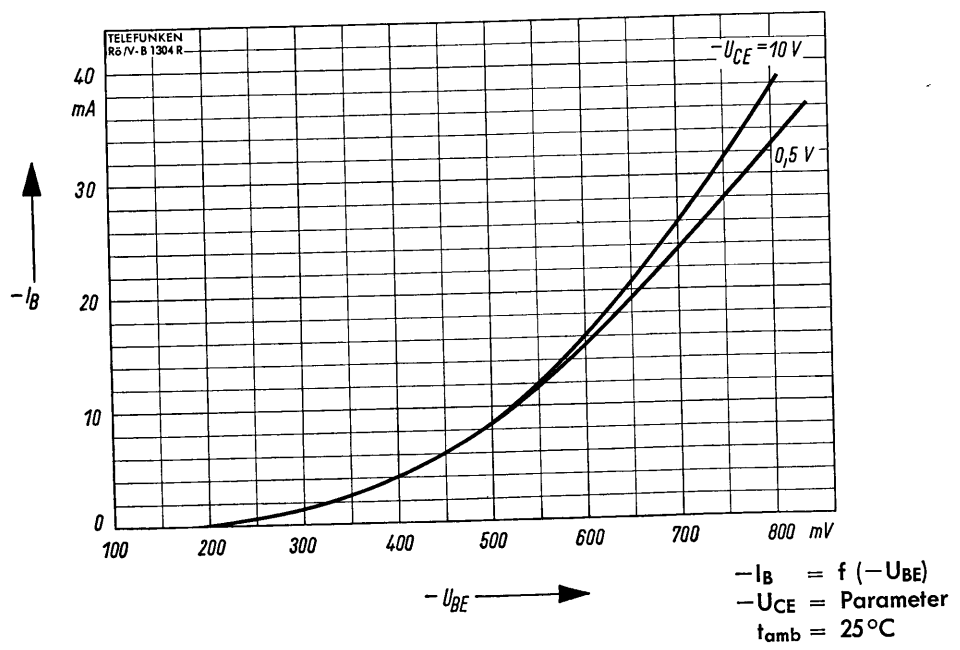
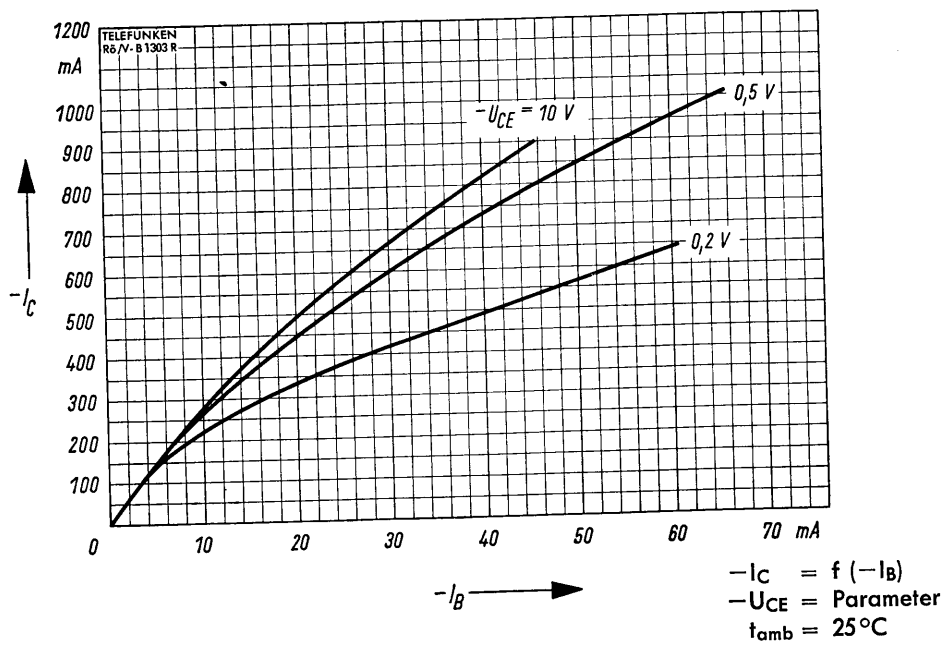
$-I_c = f(-U_{CE})$
 $-U_{BE} = \text{Parameter}$
 $t_{amb} = 25^\circ\text{C}$

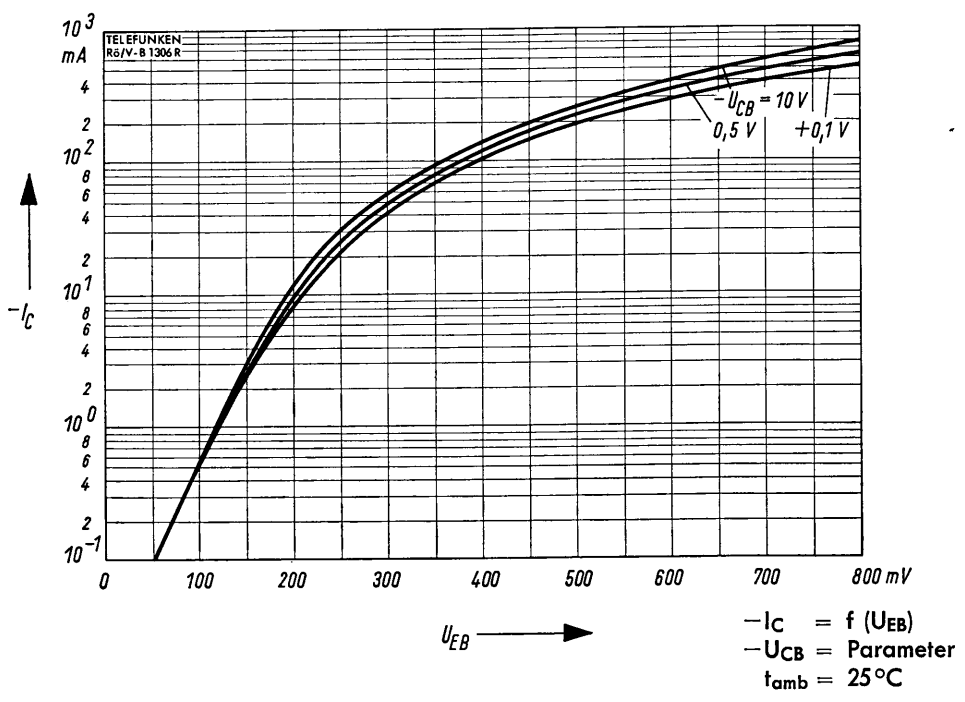
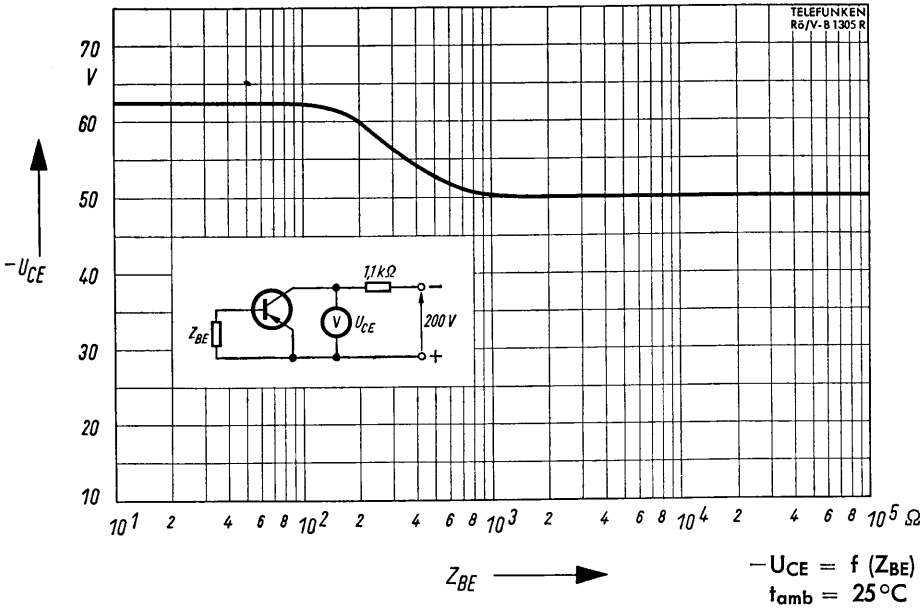


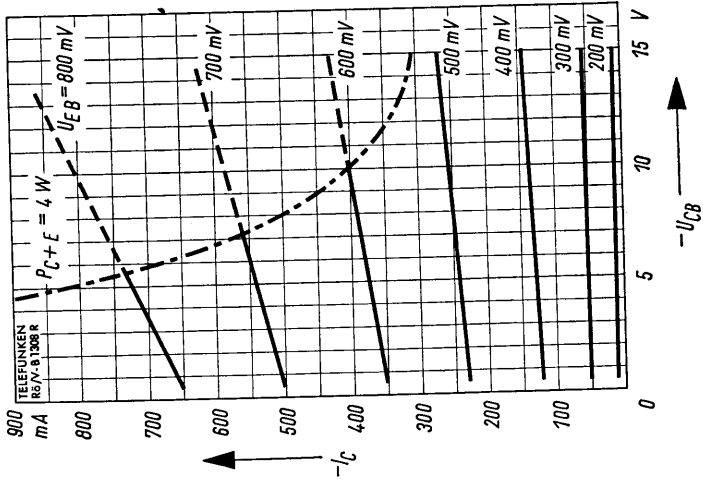
$-I_c = f(-U_{CE})$
 $-I_B = \text{Parameter}$
 $t_{amb} = 25^\circ\text{C}$



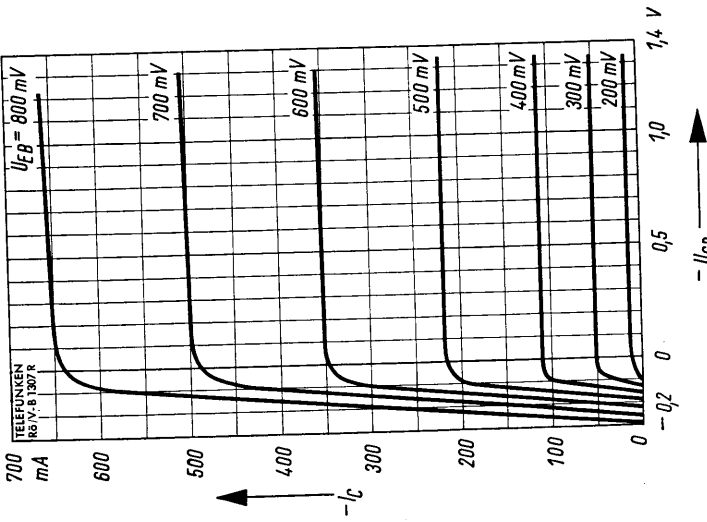








$-I_c = f(-U_{CB})$
 $U_{EB} = \text{Parameter}$
 $t_{amb} = 25^\circ C$



$-I_c = f(-U_{CB})$
 $U_{EB} = \text{Parameter}$
 $t_{amb} = 25^\circ C$

