Gleichstrom-Meßwerte, $t_{amb} = 25°C$

1. Arbeitspunkt $-U_{CE} = 6\,V, -I_C = 5\,mA$

Basisspannung	$-U_{BE}$	150	mV

2. Arbeitspunkt*) $-U_{CE} = 6\,V, -I_C = 50\,mA$

Basisspannung	$-U_{BE}$	235	mV
Basisstrom	$-I_B$	600	µA

3. Arbeitspunkt*) $-U_{CE} = 1\,V, -I_C = 300\,mA$

Basisspannung	$-U_{BE}$	$400 < 500$	mV
Basisstrom	$-I_B$	$3{,}75 < 8$	mA

Restströme

Collectorreststrom, $-U_{CB} = 6\,V$	$-I_{cbo}$	$6 < 18$	µA
Emitter offen $-U_{CB} = 30\,V$	$-I_{cbo}$	$\leqq 30$	µA
Collectorreststrom, $-U_{CE} = 6\,V$ Basis offen	$-I_{ceo}$	250	µA
Collectorreststrom, $-U_{CB} = 30\,V$ Basis-Emitter kurzgeschlossen	$-I_{ck}$	$25 < 250$	µA
Emitterreststrom, $-U_{EB} = 10\,V$ Collector offen	$-I_{ebo}$	$5{,}5 < 30$	µA

Wärme-Innenwiderstand	$R_{i\,therm}$	$\leqq 50$	°C/W
Wärmewiderstand	R_{therm}	$\leqq 0{,}25$	°C/mW

Stromverstärkung $B = \frac{I_C}{I_B}$

$-U_{CE} = 6\,V, -I_C = 50\,mA$	B	83,5
$-U_{CE} = 1\,V, -I_C = 300\,mA$	B	80

Verhältnis der Stromverstärkungen

bei $-U_{CE} = 1\,V, -I_C = 50\,mA$ und
$-U_{CE} = 1\,V, -I_C = 300\,mA$ $\leqq 1{,}3$

Wechselstrom-Meßwerte, $t_{amb} = 25°C$

β-Grenzfrequenz $-U_{CE} = 2\,V, -I_C = 10\,mA$	f_β	10	kHz

*) Nur mit Impulsen ≦ 1 ms zu messen, wobei die integrierte Verlustleistung ≦ 40 mW bleiben muß.

Bedingungen für paarweise Lieferung

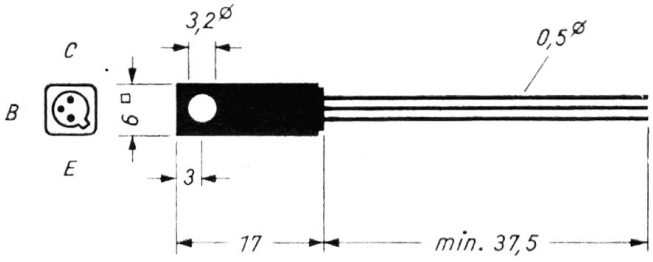
Basisspannung bei $-U_{CE} = 6\,V$, $-I_C = 5\,mA$ zwischen $U_{BE} = 125...185\,mV$	ΔU_{BE}	$\leqq$ 10	mV
Basisstrom bei $-U_{CE} = 6\,V$, $-I_C = 50\,mA$ bei $-U_{CE} = 1\,V$, $-I_C = 300\,mA$	ΔI_B	$\leqq$ 25	%

Grenzwerte, absolute Maxima

Collectorspannung			
mit $R_{BE} = 500\,\Omega$	$-U_{CER}$	**32**	V
Basis offen	$-U_{CEo}$	**18**	V
Emitter offen	$-U_{CBo}$	**32**	V
Basis — Emitter kurzgeschlossen	$-U_{Ck}$	**32**	V
Basisspannung			
Collector offen	$-U_{EBo}$	**10**	V
Collectorstrom	$-I_C$	**1**	A
Collectorspitzenstrom	$-I_{Csp}$	**2**	A
Collector- + Emitter-Verlustleistung,			
$t_{amb} = 25\,°C$ in ruhender Luft	P_{C+E}	**260**	mW
$t_{amb} = 45\,°C$ in ruhender Luft	P_{C+E}	**180**	mW
$t_{Gehäuse} \leqq 45\,°C$	P_{C+E}	**900**	mW
Sperrschichttemperatur	t_j	**90**	°C

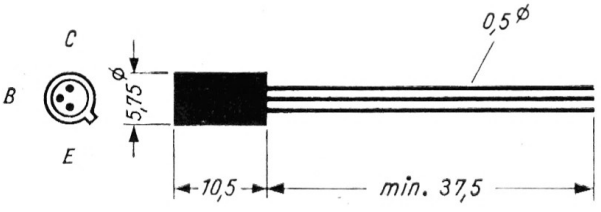
max. Abmessungen

AC 117



Gewicht: max. 4 g

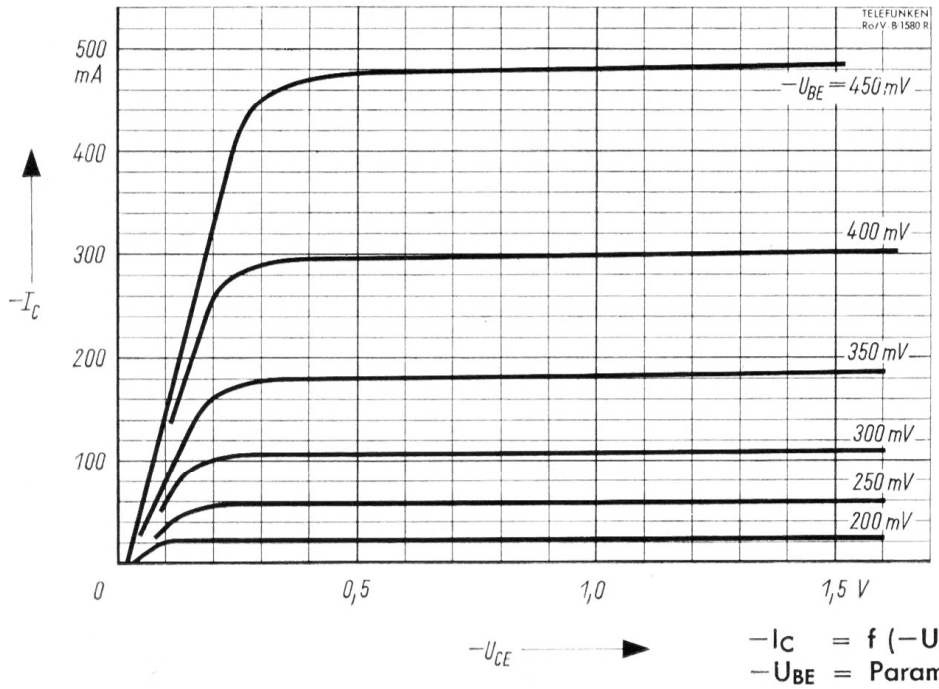
AC 117 R



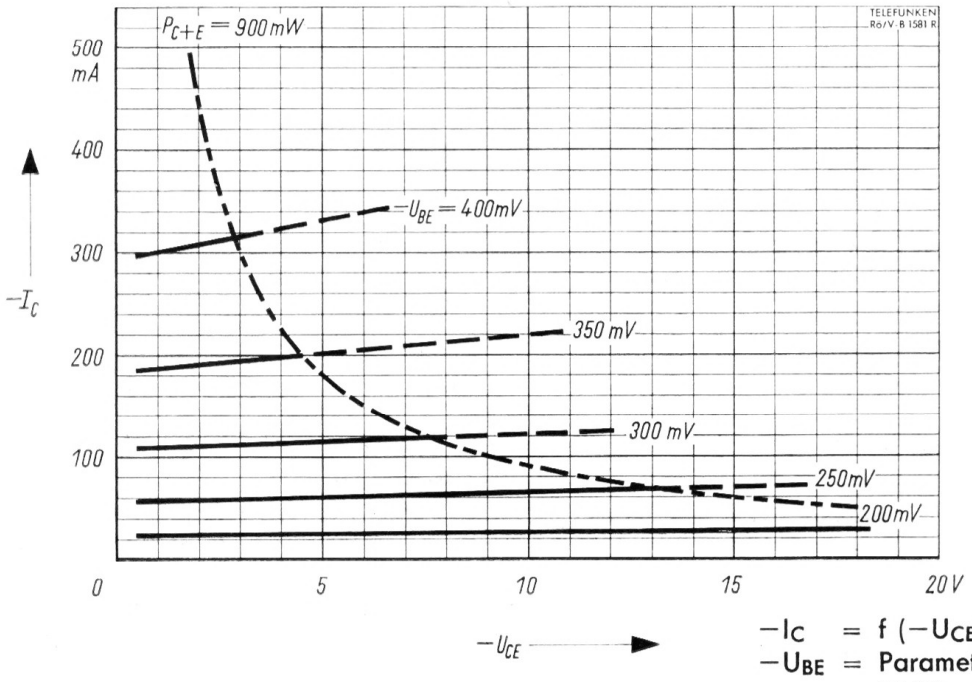
Gewicht: max. 2 g

Zubehör

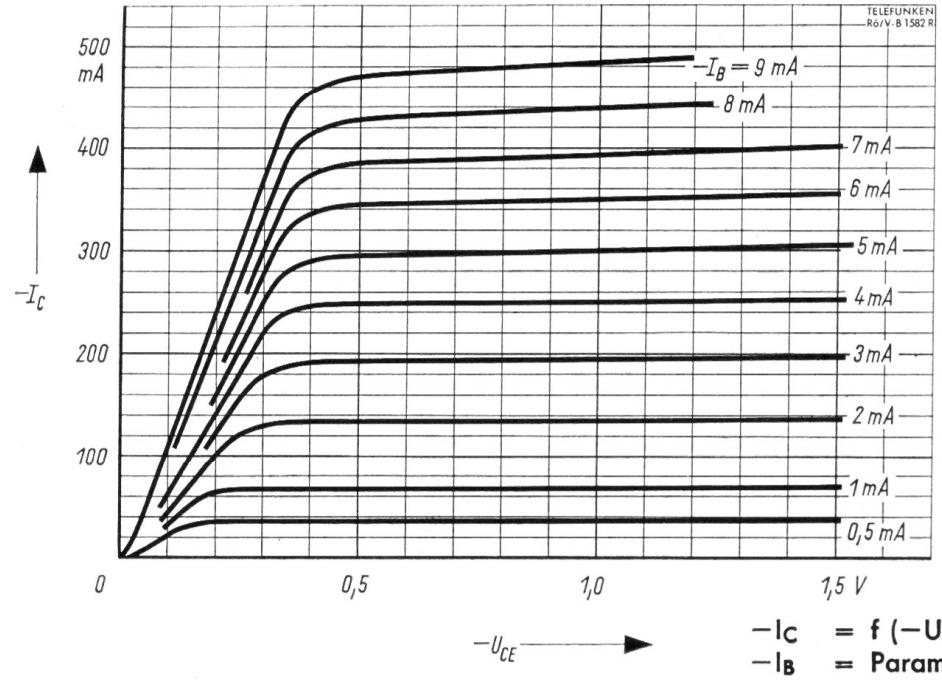
AC 117	Befestigungsschelle Lager-Nr. 30 507
AC 117 R	Kühlschelle Lager-Nr. 30 546



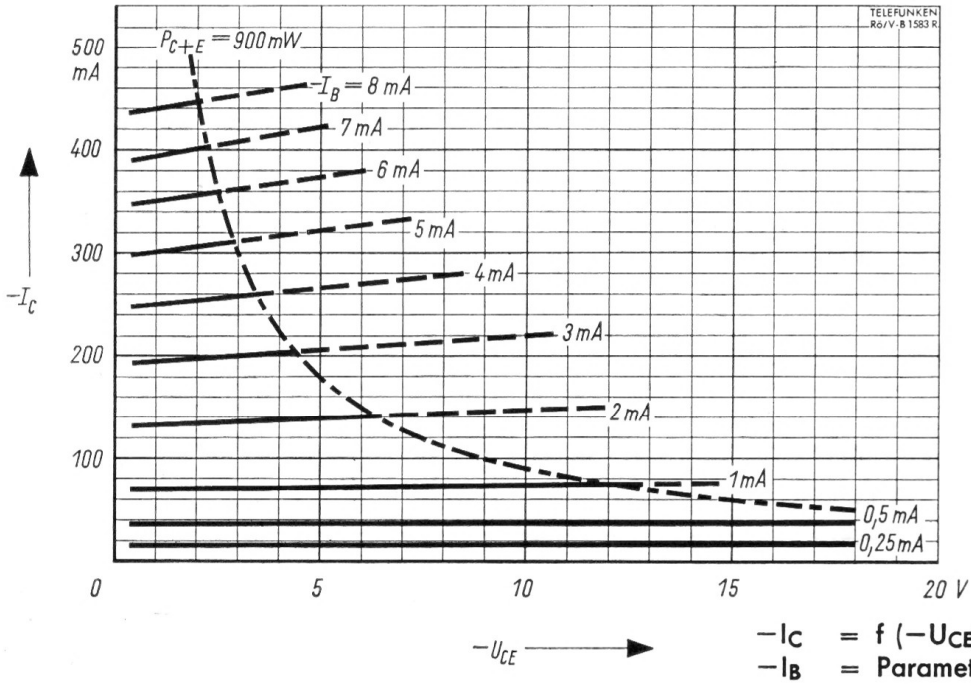
$-I_C$ = f ($-U_{CE}$)
$-U_{BE}$ = Parameter
t_{amb} = 25 °C



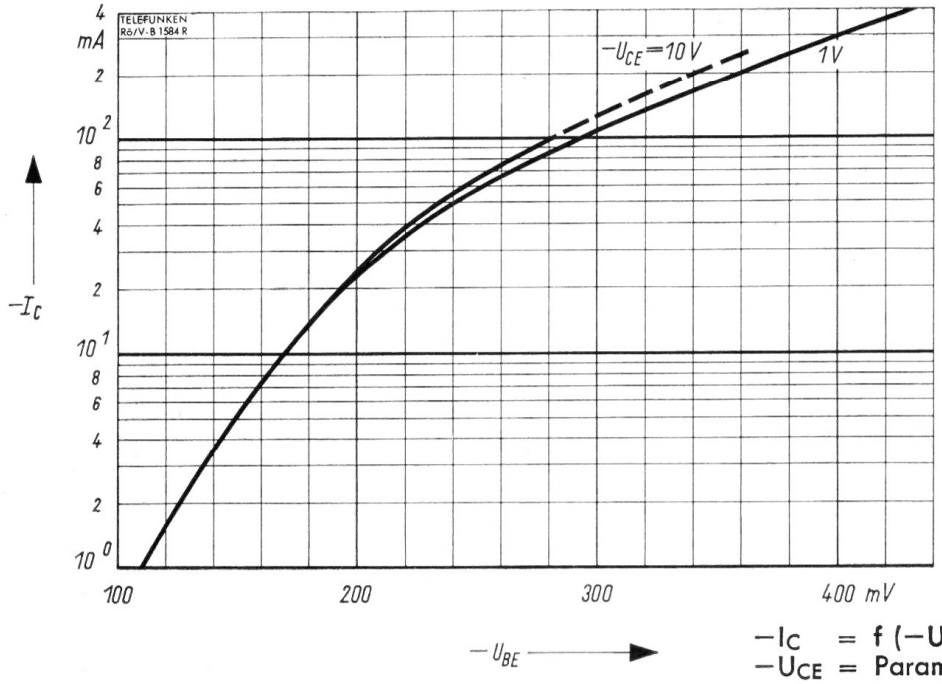
$-I_C$ = f ($-U_{CE}$)
$-U_{BE}$ = Parameter
t_{amb} = 25 °C



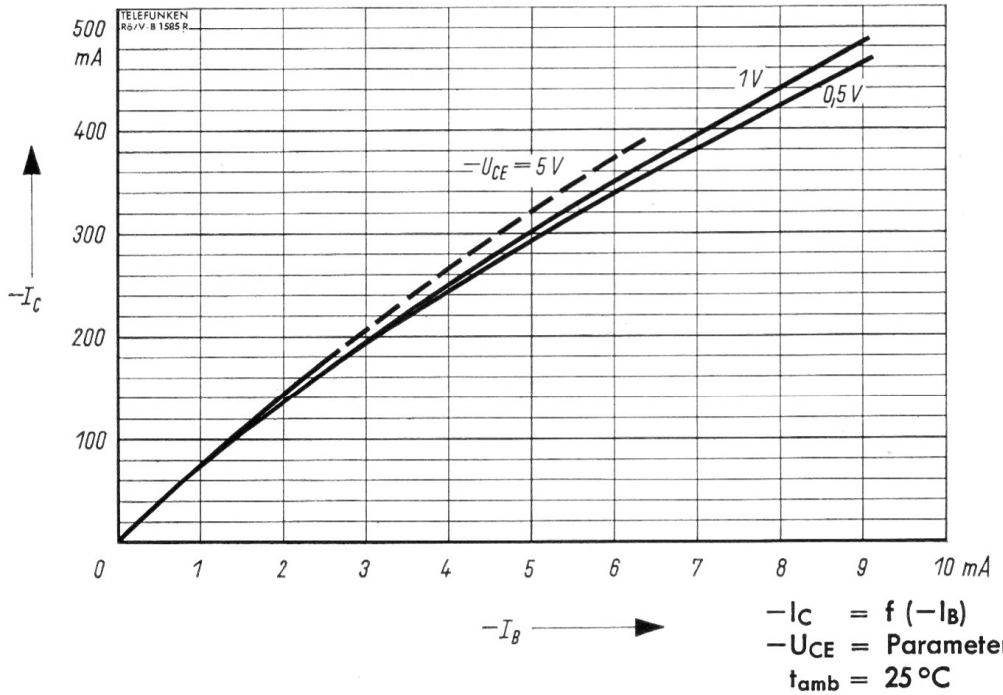
$-I_C = f(-U_{CE})$
$-I_B$ = Parameter
t_{amb} = 25 °C



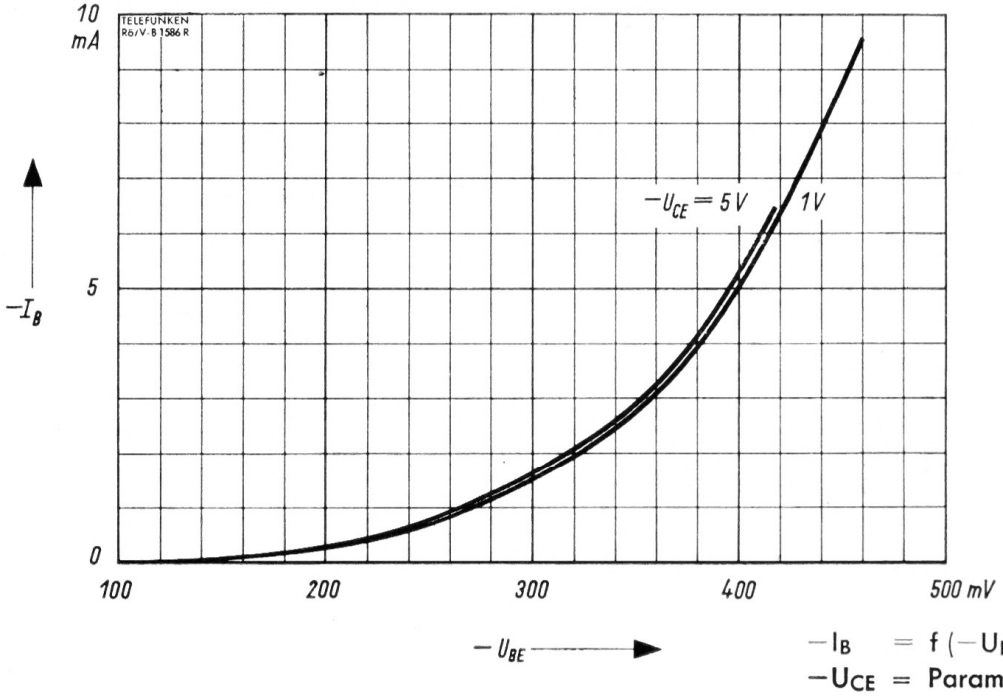
$-I_C = f(-U_{CE})$
$-I_B$ = Parameter
t_{amb} = 25 °C



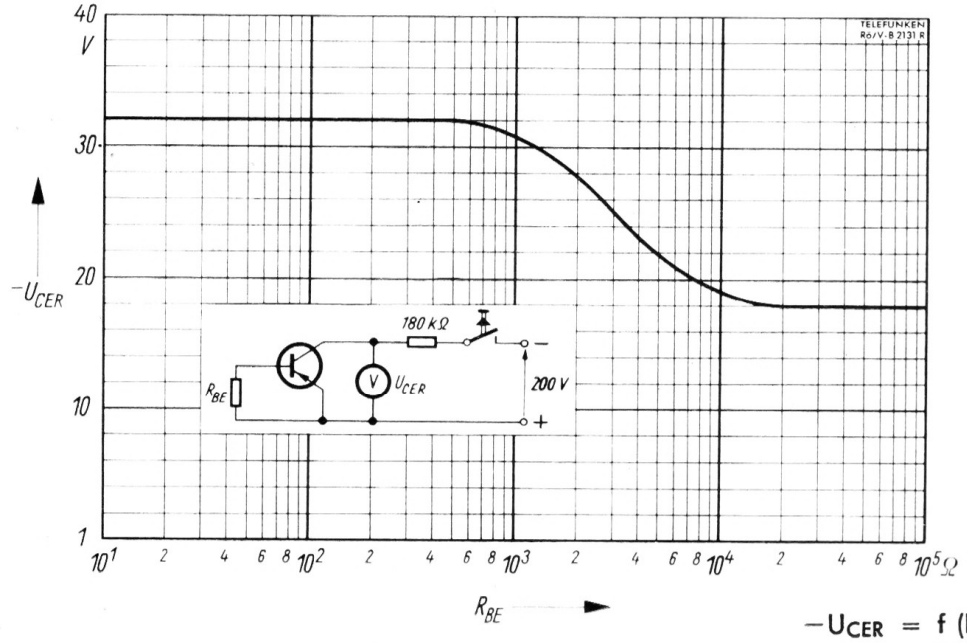
$-I_C = f(-U_{BE})$
$-U_{CE}$ = Parameter
t_{amb} = 25 °C



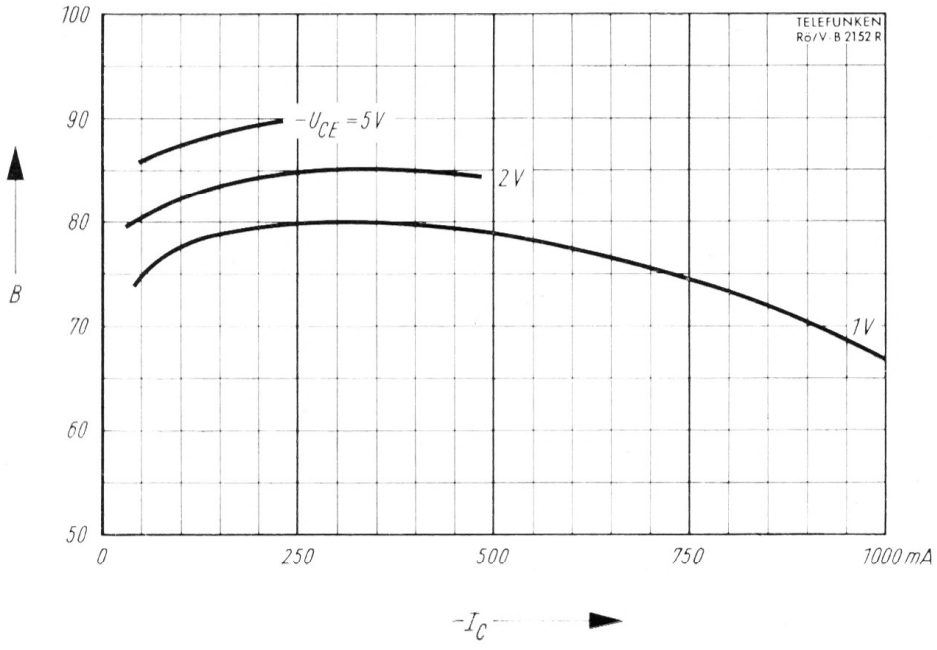
$-I_C = f(-I_B)$
$-U_{CE}$ = Parameter
t_{amb} = 25 °C



$-I_B = f(-U_{BE})$
$-U_{CE}$ = Parameter
t_{amb} = 25 °C



$-U_{CER} = f(R_{BE})$
t_{amb} = 25 °C



$$B = \frac{I_C}{I_B} = f(-I_C)$$

$-U_{CE}$ = Parameter

t_{amb} = 25 °C