

Abmessungen: Plastikgehäuse

Masse ca. 0,1 g

Zulässige Höchstwerte gültig bis $\theta_{j\max}$

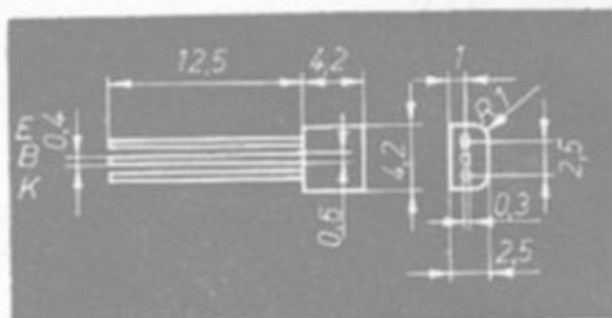
$U_{CE0} = 20\text{ V}$	$I_B = 20\text{ mA}$
$U_{CE0} = 15\text{ V}$	$P_{\text{tot}} = 200\text{ mW}$
$U_{EB0} = 5\text{ V}$	bei $\theta_a = 25^\circ\text{C}$
$I_C = 100\text{ mA}$	$\theta_j = 125^\circ\text{C}$

bei $t_{\text{av}} = 20\text{ ms}$

$\hat{I}_C = 200\text{ mA}$

Wärmewiderstand $R_{th} \leq 0,5 \frac{\text{grad}}{\text{mW}}$

Kennwerte für $\theta_a = 25^\circ\text{C} - 5\text{ grad}$



	Min.	Typ	Max.	Meßbedingungen	Stromverstärkungsgruppen
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Restströme

I_{CBO}	7,5 nA	< 100 nA	300 nA	$U_{CB} = 20\text{ V}$	
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Durchbruchspannungen

$U_{(BR)CBO}$	20 V	60 V		$I_C = 10\text{ }\mu\text{A}$	
$U_{(BR)CEO}$	15 V	25 V		$I_C = 10\text{ mA}$	
$U_{(BR)EBO}$	5 V	6,5 V		$I_E = 10\text{ }\mu\text{A}$	

Sättigungsspannung

U_{CEsat}		0,2 V	0,45 V	$I_C = 30\text{ mA}, I_B = 3\text{ mA}$	
U_{BEsat}		0,85 V		$I_C = 30\text{ mA}, I_B = 3\text{ mA}$	

Gleichstromverstärkung

B	18		35	$I_C = 30\text{ mA}, U_{CE} = 0,5\text{ V}$	A
	28		71		B
	56		140		C
	112		280		D
	224		560		E

Schaltzeiten

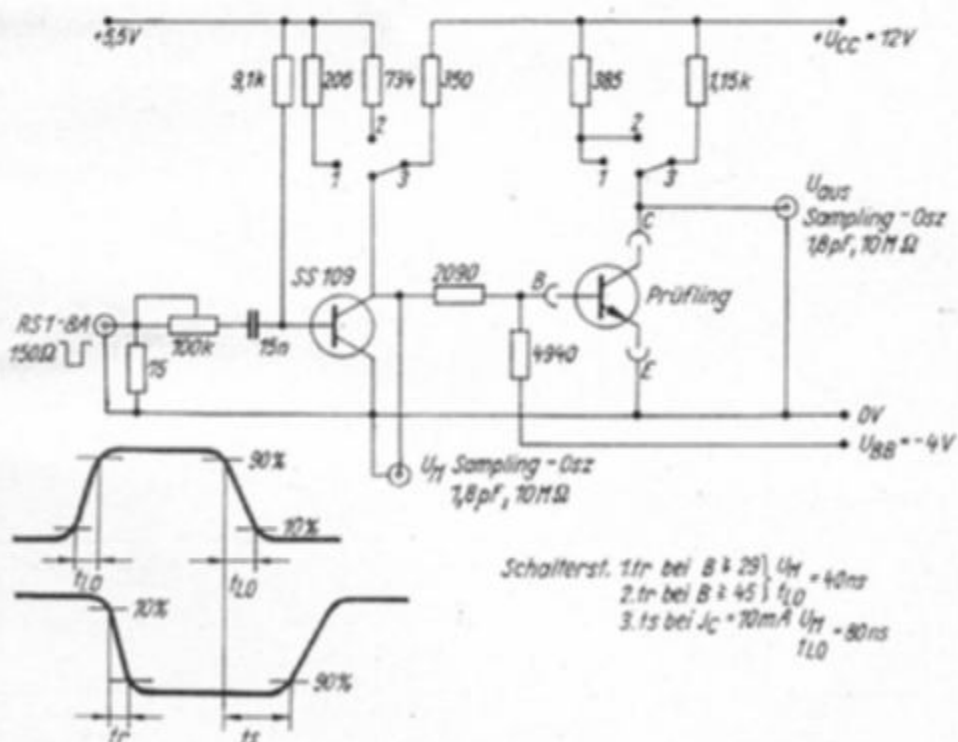
t_r		80 μs		$m = 1$ für B = 25	
t_r		90 μs		$m = 1$ für B = 45	
				(siehe Meßschaltung)	
t_s		0,6 μs		$I_C = 10\text{ mA}, U_{CE} = 0,5\text{ V}$	
				$m = 10$ für B = 29	
				$-I_{B2} = 1\text{ mA}$	
				(siehe Meßschaltung)	

	Min.	Typ	Max.	Meßbedingungen
Übergangsfrequenz				
f_T		350 MHz		$U_{CE} = 10 \text{ V}, I_C = 5 \text{ mA}, f = 100 \text{ MHz}$
Ausgangskapazität				
C_{22b}		2,6 pF		$U_{CB} = 10 \text{ V}, I_E = 0, f = 2 \text{ MHz}$

**Bestellbeispiel für einen Transistor
der Stromverstärkungsgruppe B**

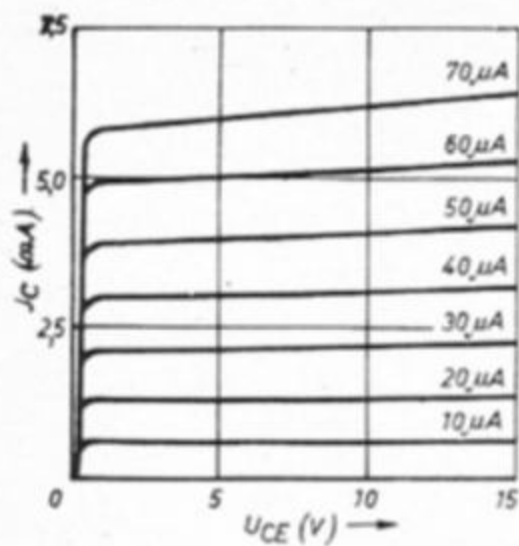
Transistor SS 216 B

Schaltzeitmeßschaltung



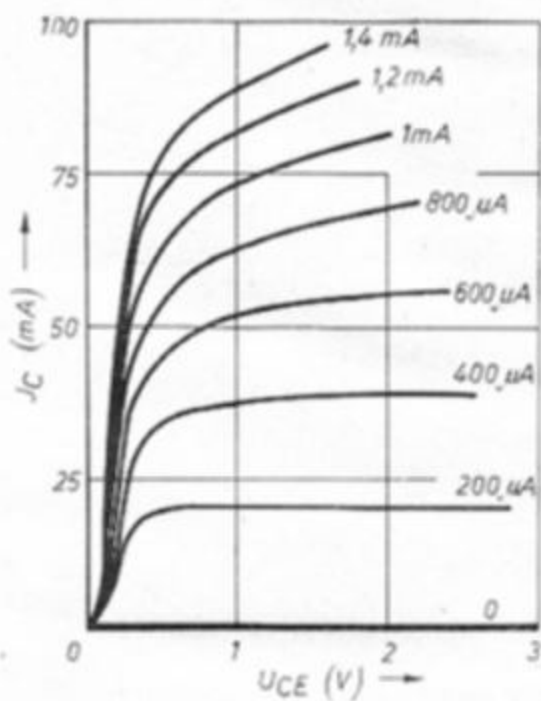
$$I_C = f(U_{CE})$$

$$I_B = \text{Parameter}$$



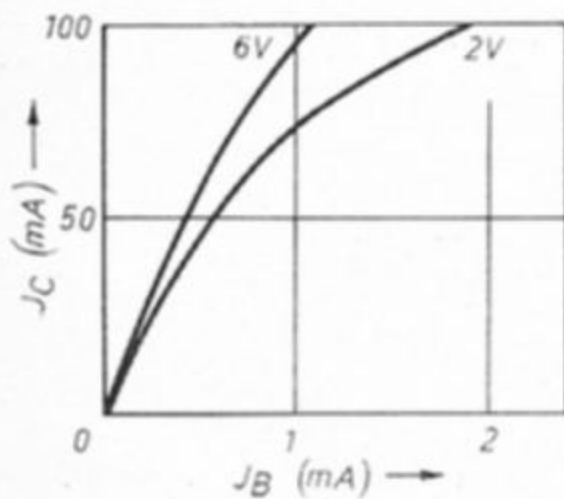
$$I_C = f(U_{CE})$$

$$I_B = \text{Parameter}$$



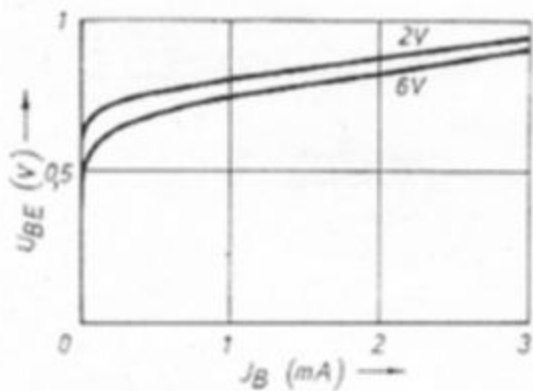
$$I_C = f(I_B)$$

$$U_{CE} = \text{Parameter}$$



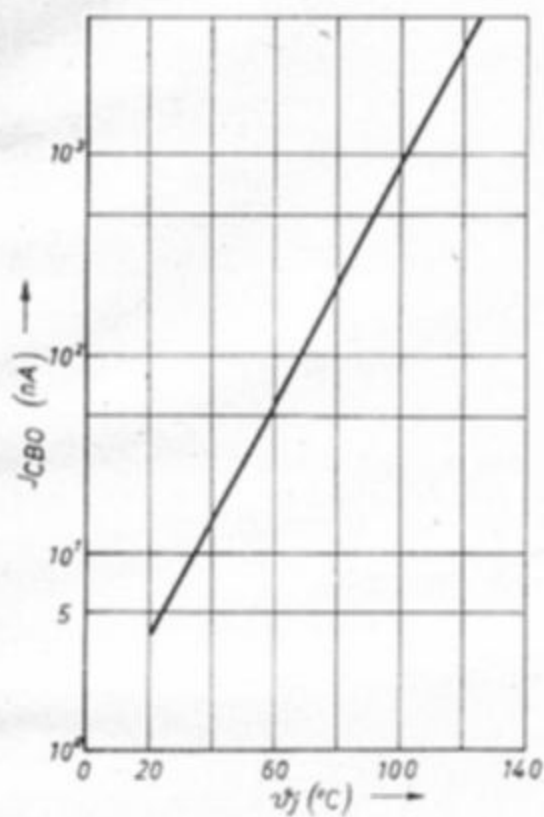
$$U_{BE} = f(I_B)$$

$$U_{CE} = \text{Parameter}$$



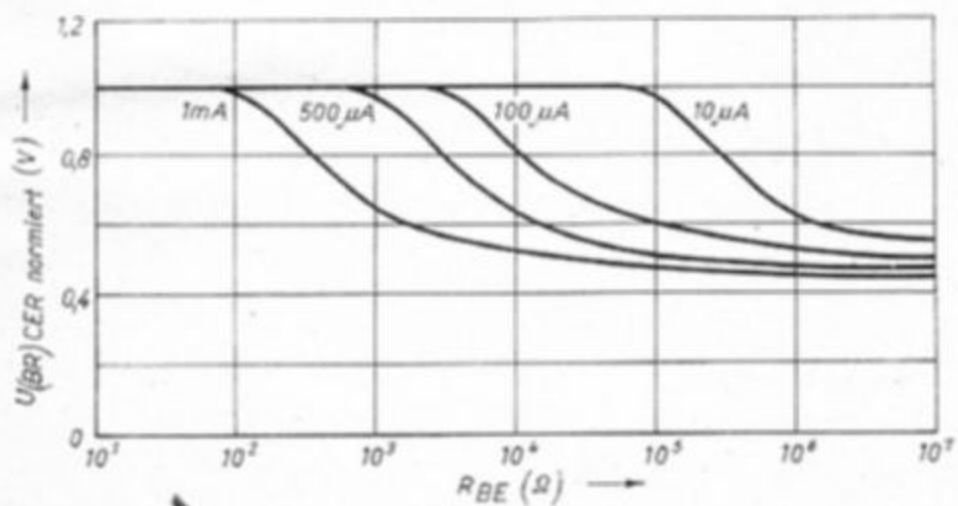
$$J_{CB0} = f(\vartheta_j)$$

$$U_{CB} = 20 \text{ V}$$



$$U_{(BR)CER} = f(R_{BE})$$

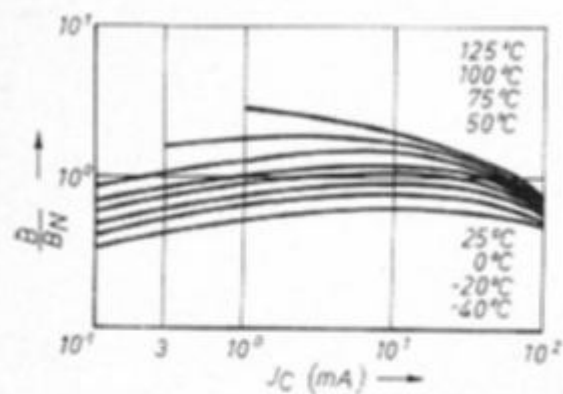
$$J_C = \text{Parameter}$$



$$B_N = f(J_C)$$

$$U_{CE} = 1V$$

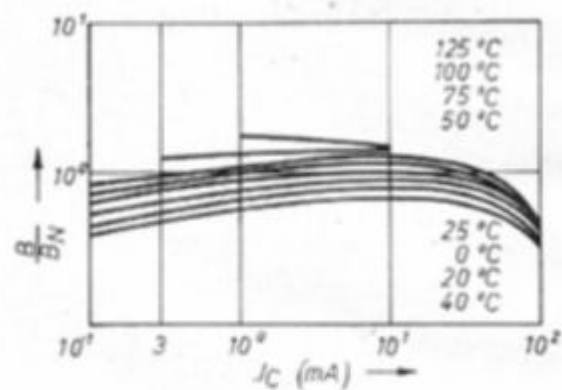
$$v_G = \text{Parameter}$$



$$B_N = f(J_C)$$

$$U_{CE} = 0,5V$$

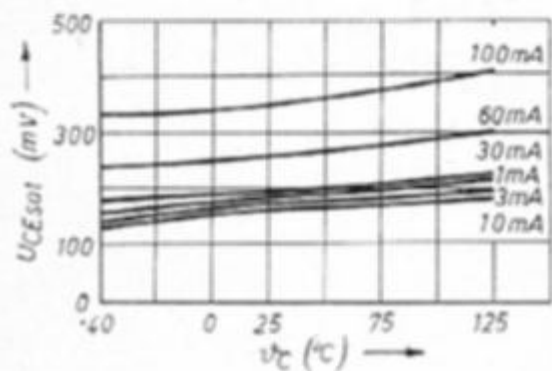
$$v_G = \text{Parameter}$$



$$U_{CEsat} = f(v_G)$$

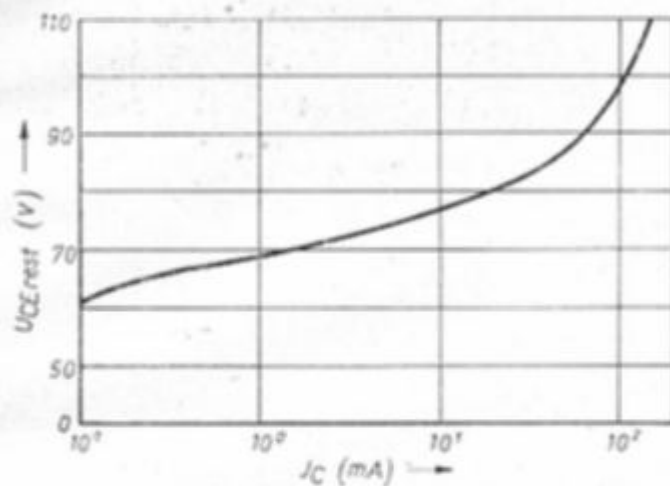
$$\frac{J_C}{J_B} = 10$$

$$J_C = \text{Parameter}$$



$$U_{CE_{rest}} = f(J_C)$$

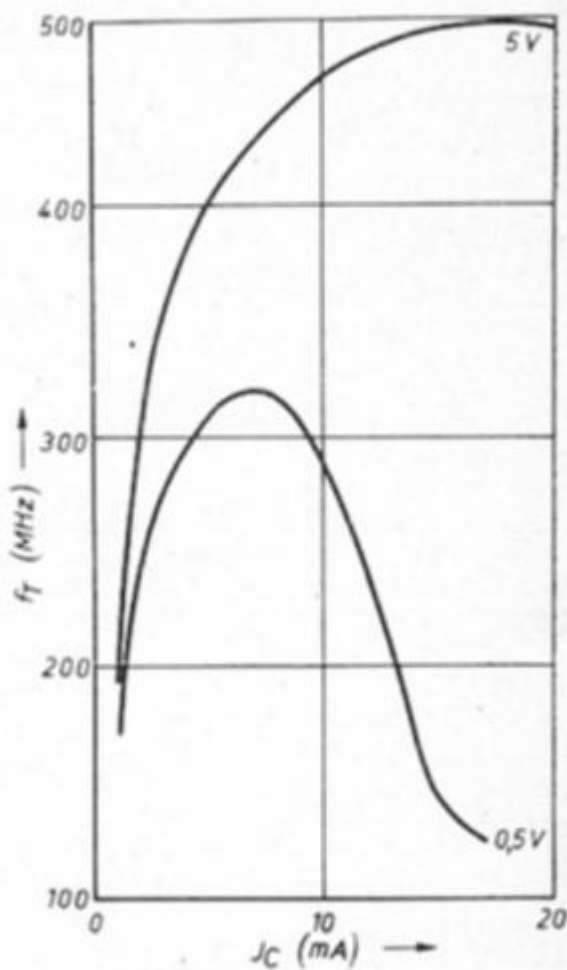
$$U_{CB} = 0$$



$$f_T = f(J_C)$$

$$U_{CE} = \text{Parameter}$$

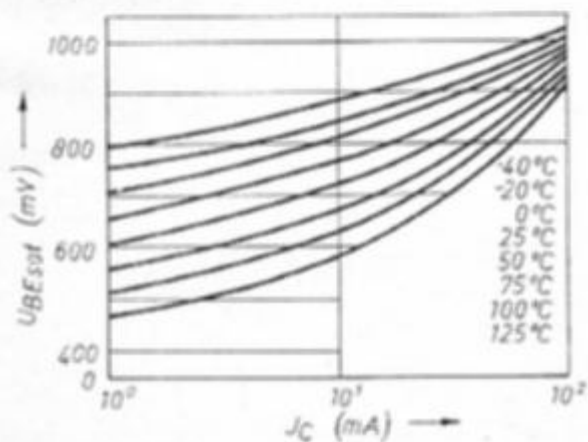
$$f = 100 \text{ MHz}$$



$$U_{BE_{sat}} = f(J_C)$$

$$\frac{J_C}{J_B} = 10$$

$$U_G = \text{Parameter}$$



$$C_{22b} = f(U_{CB})$$

$$f = 2 \text{ MHz}$$

