Tungsram AC187, AC188 Germanium Transistors

AC 187

npn-tranzisztor, az AC 188 komplementerje.

Határértékek:

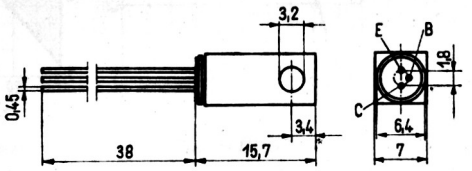
$P_{tot} = 0{,}8$ W	$I_{CM} = 2$ A
$U_{CEO} = 15$ V	$I_B = 1$ A
$U_{CBO} = 25$ V	$\vartheta_j = 90$°C
$U_{EBO} = 10$ V	$R_{\vartheta ja} = 45$ °C/W
$I_C = 1$ A	$\vartheta_{stg} = -55 \ldots 75$ °C

Jellemző adatok: $\vartheta_a = 25$ °C

$I_{CEV} = 200\ \mu$A ($U_{CEV} = 25$ V, $U_{BE} = 1$ V)
$I_{CBO} = 0{,}6 < 2$ mA ($U_{CBO} = 10$ V, $\vartheta_a = 90$ °C)
$I_{CBO} = 7 < 35\ \mu$A ($U_{CBO} = 10$ V, $\vartheta_a = 25$ °C)
$I_{CBO} = 0{,}8 < 2{,}5$ mA ($U_{CBO} = 25$ V, $\vartheta_a = 90$ °C)
$I_{CBO} = 25 < 200\ \mu$A ($U_{CBO} = 25$ V, $\vartheta_a = 25$ °C)
$I_{EBO} = 20 < 200\ \mu$A ($U_{EBO} = 10$ V, $\vartheta_a = 25$ °C)
$U_{(BR)CEO} > 18$ V ($I_{CEO} = 300$ mA)
$U_{(BR)CBO} > 32$ V ($I_{CBO} = 500\ \mu$A)
$U_{(BR)EBO} > 10$ V ($I_{EBO} = 200\ \mu$A)
$f_T = 1 < 3$ MHz ($I_C = 10$ mA, $U_{CE} = 2$ V)
$C_{CBO} = 100$ pF ($U_{CBO} = 5$ V, $f = 450$ kHz)

Munkapontok:

U_{CB}	I_C	I_B	h_{21E}	U_{BE}
0	50	0,3	165	0,3
0	300	1,5...3	100...500	0,65
0	1000	15,4	65	1
V	mA	mA	I_C/I_B	V



AC 188

pnp-tranzisztor, az AC 187 komplementerje.

Határértékek:

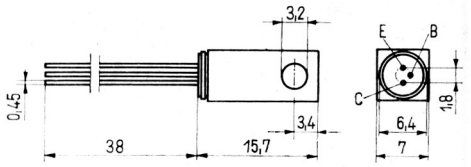
$P_{tot} = 0{,}8$ W	$I_{CM} = 2$ A
$U_{CEO} = 15$ V	$I_B = 0{,}1$ A
$U_{CBO} = 25$ V	$\vartheta_j = 90$ °C
$U_{EBO} = 10$ V	$R_{\vartheta jc} = 45$ °C/W
$I_C = 1$ A	$\vartheta_{stg} = -55 \ldots 75$ °C

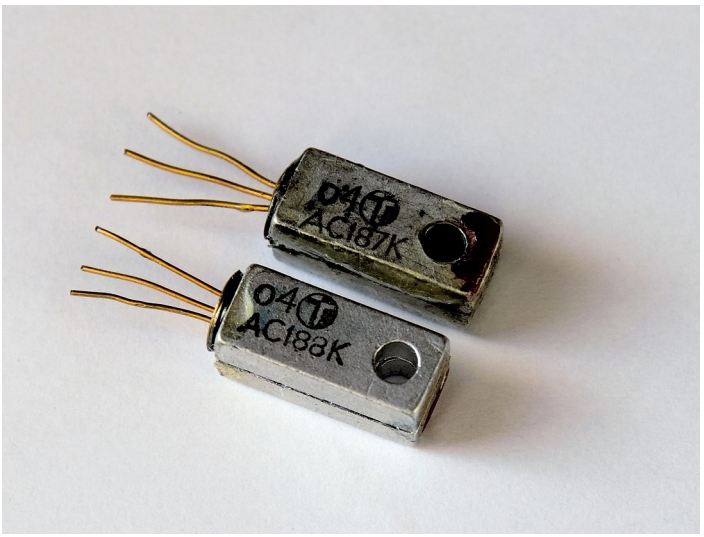
Jellemző adatok: $\vartheta_a = 25$ °C

$U_{BE} = 115 \ldots 145$ mV ($I_C = 5$ mA, $U_{CE} = 10$ V)
$I_{CEV} < 200\ \mu$A ($U_{CEV} = 25$ V, $U_{BE} = 1$ V, $\vartheta_a = 25$ °C)
$I_{CBO} = 0{,}4 < 11$ mA ($U_{CBO} = 10$ V, $\vartheta_a = 90$ °C)
$I_{CBO} = 5 < 15\ \mu$A ($U_{CBO} = 10$ V, $\vartheta_a = 25$ °C)
$I_{EBO} = 15 < 200$ 7A ($U_{EBO} = 10$ V, $\vartheta_a = 25$ °C)
$f_\beta \cong 10$ kHz ($I_C = 10$ mA, $U_{CE} = 2$ V)
$C_{CBO} \cong 100$ pF ($U_{CBO} = 5$ V, $f = 450$ kHz)

Munkapontok:

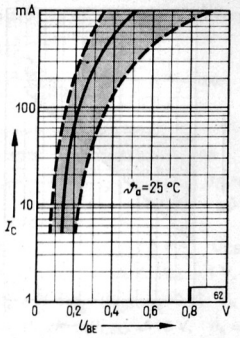
U_{CB}	I_C	I_B	h_{21E}	U_{BE}
0	50	0,3	165	0,28
0	300	0,6...3	100...500	0,45
0	1000	12,4	80	0,7
V	mA	mA	I_C/I_B	V



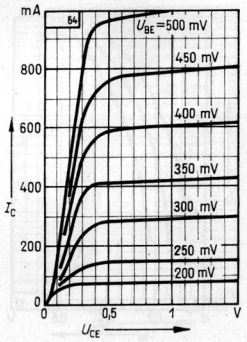


Zabb Csaba

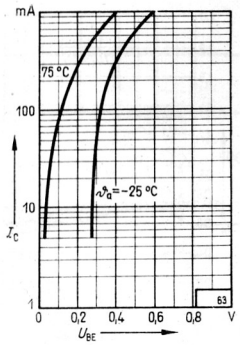
AC 187



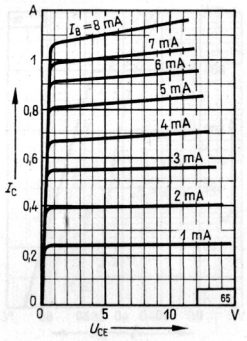
$I_C = f(U_{CE})$



$I_C = f(U_{CE})$

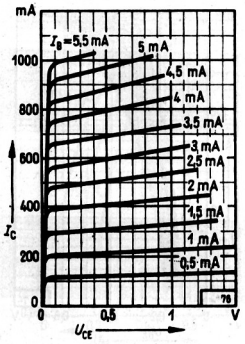


$I_C = f(U_{BE})$



$I_C = f(U_{BE})$

AC 188



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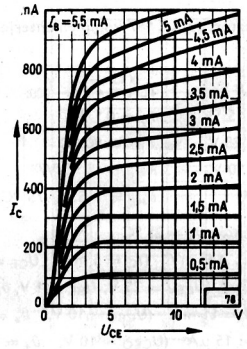
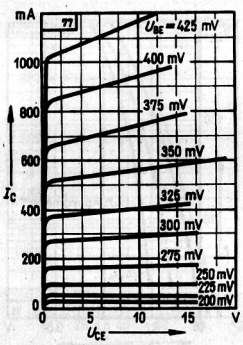
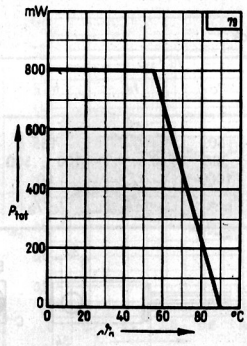


$I_C = f(U_{CE})$



$I_C = f(U_{CE})$



$P_{tot} = f(\vartheta_a)$

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