

Tungram AC187, AC188 Germanium Transistors

AC 187

npn-tranzisztor, az AC 188 komplementerje.

Határértékek:

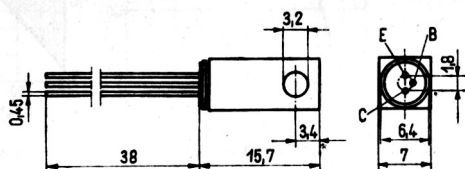
$P_{tot} = 0,8 \text{ W}$ $I_{CM} = 2 \text{ A}$
 $U_{CEO} = 15 \text{ V}$ $I_B = 1 \text{ A}$
 $U_{CBO} = 25 \text{ V}$ $\theta_j = 90^\circ\text{C}$
 $U_{EBO} = 10 \text{ V}$ $R\theta_{ja} = 45^\circ\text{C/W}$
 $I_C = 1 \text{ A}$ $\theta_{stg} = -55 \dots 75^\circ\text{C}$

Jellemző adatok: $\theta_a = 25^\circ\text{C}$

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

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:

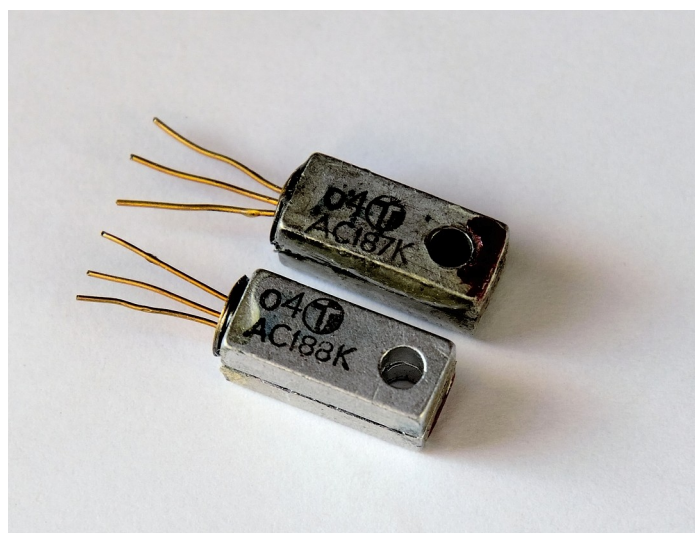
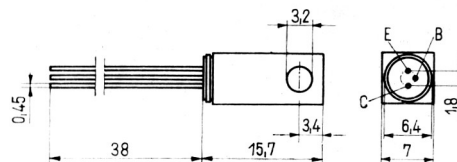
$P_{tot} = 0,8 \text{ W}$ $I_{CM} = 2 \text{ A}$
 $U_{CEO} = 15 \text{ V}$ $I_B = 0,1 \text{ A}$
 $U_{CBO} = 25 \text{ V}$ $\theta_j = 90^\circ\text{C}$
 $U_{EBO} = 10 \text{ V}$ $R\theta_{jc} = 45^\circ\text{C/W}$
 $I_C = 1 \text{ A}$ $\theta_{stg} = -55 \dots 75^\circ\text{C}$

Jellemző adatok: $\theta_a = 25^\circ\text{C}$

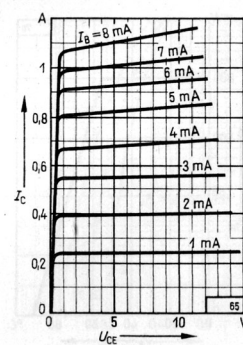
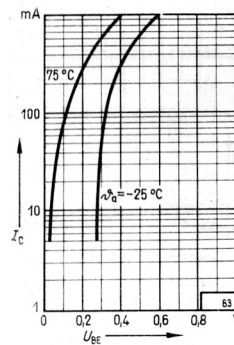
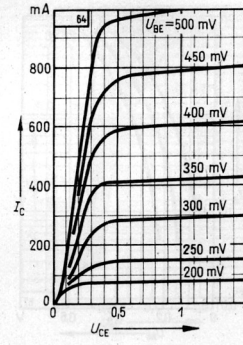
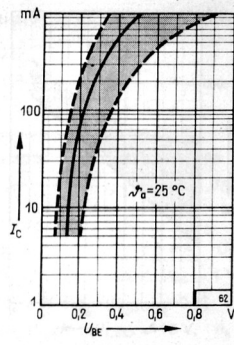
$U_{BE} = 115 \dots 145 \text{ mV}$ ($I_C = 5 \text{ mA}$, $U_{CE} = 10 \text{ V}$)
 $I_{CEV} < 200 \mu\text{A}$ ($U_{CEV} = 25 \text{ V}$, $U_{BE} = 1 \text{ V}$, $\theta_a = 25^\circ\text{C}$)
 $I_{CBO} = 0,4 < 11 \text{ mA}$ ($U_{CBO} = 10 \text{ V}$, $\theta_a = 90^\circ\text{C}$)
 $I_{CBO} = 5 < 15 \mu\text{A}$ ($U_{CBO} = 10 \text{ V}$, $\theta_a = 25^\circ\text{C}$)
 $I_{EBO} = 15 < 200 \text{ nA}$ ($U_{EBO} = 10 \text{ V}$, $\theta_a = 25^\circ\text{C}$)
 $f_\beta \approx 10 \text{ kHz}$ ($I_C = 10 \text{ mA}$, $U_{CE} = 2 \text{ V}$)
 $C_{CBO} \approx 100 \text{ pF}$ ($U_{CBO} = 5 \text{ V}$, $f = 450 \text{ kHz}$)

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



AC 187



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