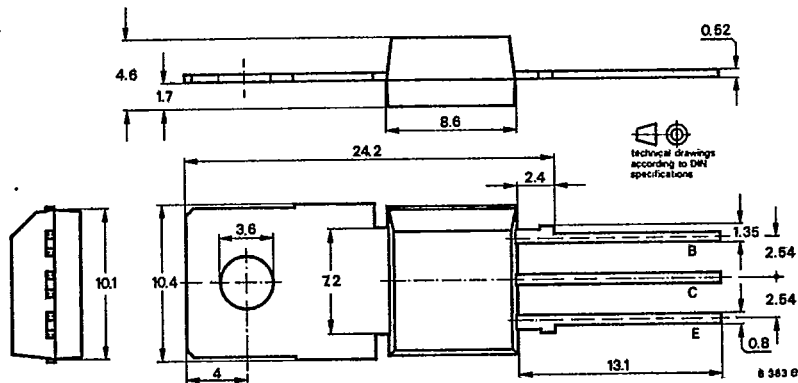


Silicon NPN Epitaxial Planar RF Transistor

Applications: Video B-class power stages in TV receivers

Features:

- High reverse voltage
- No h_{FE} -drift dependent of temperature

Dimensions in mm

Standard plastic case

34 A 3 DIN 41 869

JEDEC TO 202

Weight max. 1.8 g

Collector connected with metallic surface

Absolute maximum ratings

Collector-base voltage	V_{CBO}	300	V
Collector-emitter voltage	V_{CEO}	275	V
Emitter-base voltage	V_{EBO}	5	V
Collector current	I_C	50	mA
Collector peak current	I_{CM}	300	mA
Total power dissipation	P_{tot}	7	W
$T_{case} \leq 25^\circ C$			
Junction temperature	T_j	150	$^\circ C$
Storage temperature range	T_{stg}	-65 ... +150	$^\circ C$

Maximum thermal resistances

Junction ambient	R_{thJA}	78	K/W
Junction case	R_{thJC}	17.8	K/W

T1.2/820.0888 E

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BF 883 S

T-33-05

Characteristics

Min. Typ. Max.

 $T_{amb} = 25^\circ \text{C}$, unless otherwise specified

Collector cut-off current

 $V_{CE} = 250 \text{ V}, R_{BE} = 2.7 \text{ k}\Omega$ $V_{CE} = 200 \text{ V}, R_{BE} = 2.7 \text{ k}\Omega, T_j = 150^\circ \text{C}$ I_{CER} I_{CER}

50

10

nA

 μA

Emitter cut-off current

 $V_{EB} = 5 \text{ V}$ I_{EBO}

10

 μA

Collector-emitter breakdown voltage

 $I_C = 1 \text{ mA}$ $I_C = 1 \mu\text{A}, R_{BE} = 2.7 \text{ k}\Omega$ $V_{(BR)CEO}$ $V_{(BR)CER}$

275

300

V

V

DC forward current transfer ratio

 $V_{CE} = 20 \text{ V}, I_C = 25 \text{ mA}$ h_{FE}

50

Gain bandwidth product

 $V_{CE} = 10 \text{ V}, I_C = 10 \text{ mA}$ f_T

60

90

MHz

Feedback capacitance

 $V_{CE} = 30 \text{ V}, I_C = 1 \text{ mA}, f = 1 \text{ MHz}$ C_{12e}

1.2

1.8

pF

Collector saturation RF voltage

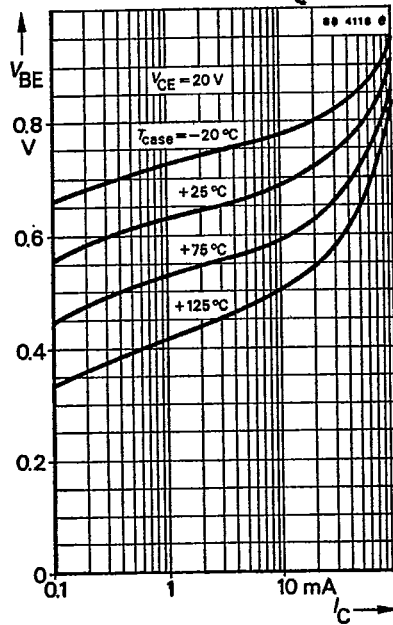
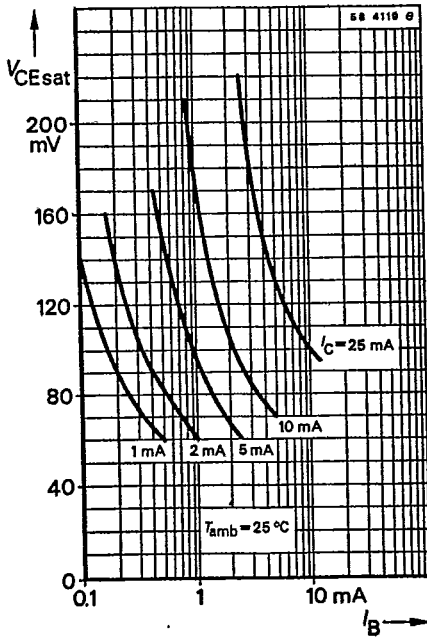
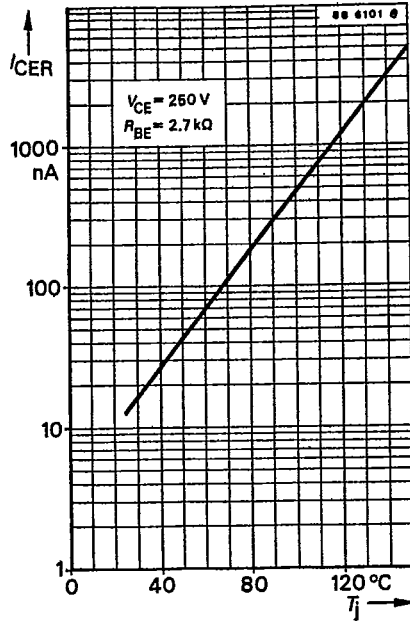
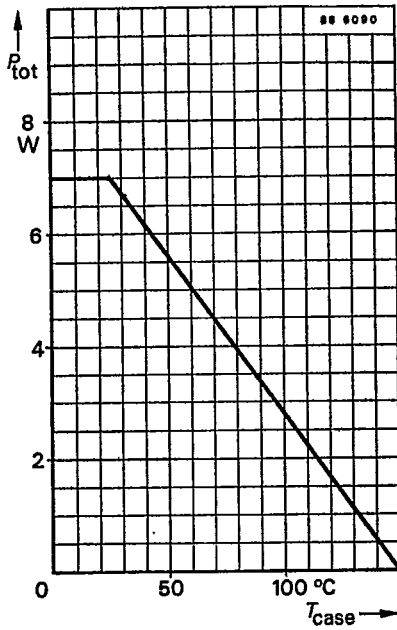
 $I_C = 25 \text{ mA}, T_j = 150^\circ \text{C}$ $V_{CEsatHF}$

20

V

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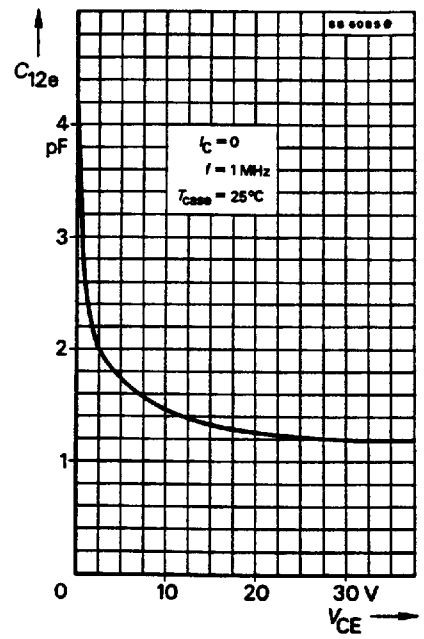
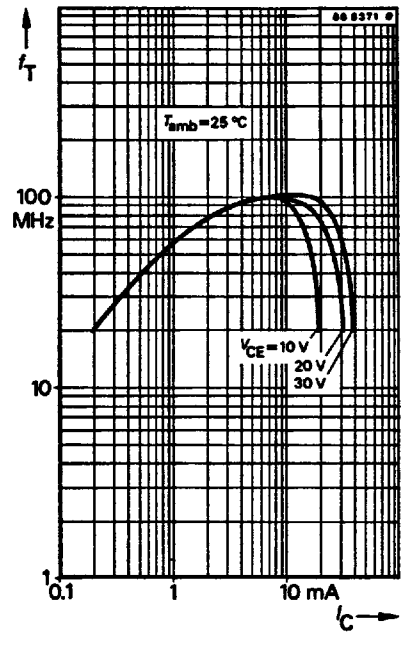
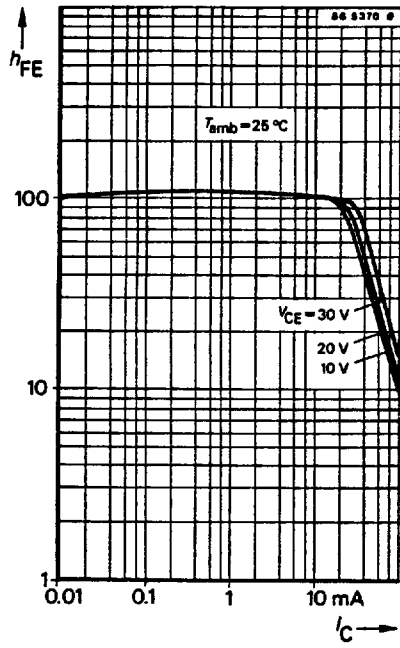
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