

## PNP HDTV video transistor

T-33-17

BFQ295

PHILIPS INTERNATIONAL

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## FEATURES

- High breakdown voltages
- Low output capacitance
- High gain bandwidth product
- Good thermal stability
- Gold metallization ensures excellent reliability
- Complementary NPN type BFQ296.

## PINNING

PIN	DESCRIPTION
1	emitter
2	collector
3	base

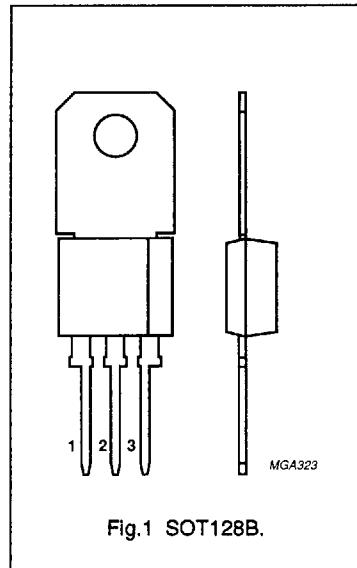


Fig.1 SOT128B.

## DESCRIPTION

The BFQ295 is mounted in a SOT128B plastic envelope, with the collector connected to the mounting base.

## LIMITING VALUES

In accordance with the Absolute Maximum System (IEC 134).

SYMBOL	PARAMETER	MAX.	UNIT
$-V_{CBO}$	collector-base voltage	230	V
$-V_{CE}$	collector-emitter voltage	225	V
$-I_C$	collector current	250	mA
$P_{tot}$	total power dissipation (note 1)	4	W
$T_j$	junction temperature	175	°C

## Note

1.  $T_{mb} = 67^\circ\text{C}$ .

## CHARACTERISTICS

$T_j = 25^\circ\text{C}$  unless otherwise specified.

SYMBOL	PARAMETER	CONDITIONS	MIN.	TYP.	UNIT
$-V_{(BR)CBO}$	collector-base breakdown voltage	open emitter; $-I_C = 100 \mu\text{A}$	195	—	V
$-V_{(BR)CE}$	collector-emitter breakdown voltage	$-I_C = 1 \text{ mA}$ ; $R_{BE} = 100 \Omega$	190	—	V
$h_{FE}$	DC current gain	$-I_C = 25 \text{ mA}$ ; $-V_{CE} = 10 \text{ V}$	15	—	
$f_T$	transition frequency	$-I_C = 25 \text{ mA}$ ; $-V_{CE} = 10 \text{ V}$ ; $f = 100 \text{ MHz}$	400	—	MHz
$C_{cb}$	collector-base capacitance	$I_C = I_b = 0$ ; $-V_{CB} = 10 \text{ V}$ ; $f = 1 \text{ MHz}$	—	1.8	pF