

PNP HDTV video transistor

T-33-17

BFQ290

PHILIPS INTERNATIONAL

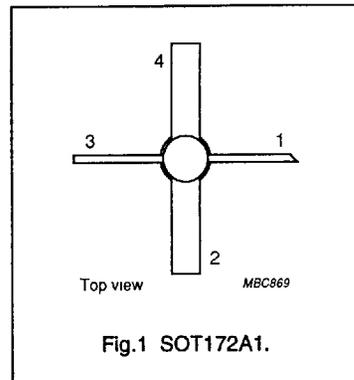
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FEATURES

- High breakdown voltages
- Low output capacitance
- High gain bandwidth product
- Good thermal stability
- Gold metallization ensures excellent reliability
- Complementary NPN type BFQ291.

PINNING

PIN	DESCRIPTION
1	collector
2	base
3	emitter
4	base



DESCRIPTION

The BFQ290 has a 4-lead SOT172A1 stud envelope with a ceramic cap. All leads are isolated from the flange.

LIMITING VALUES

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

SYMBOL	PARAMETER	MIN.	MAX.	UNIT
$-V_{CBO}$	collector-base voltage	-	230	V
$-V_{CER}$	collector-emitter voltage	-	225	V
$-I_C$	collector current	-	250	mA
P_{tot}	total power dissipation (note 1)	-	4	W
T_j	junction temperature	-	200	°C

Note

1. $T_{mb} = 100\text{ °C}$.

CHARACTERISTICS

$T_j = 25\text{ °C}$ 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
$-V_{(BR)CER}$	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