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# SOT89 PNP SILICON PLANAR HIGH VOLTAGE TRANSISTOR

## BF621

**ISSUE 3 – MARCH 2001**

**FEATURES**

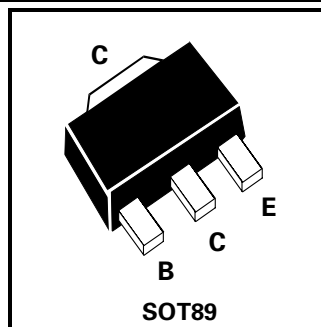
- \* High breakdown and low saturation voltage

**APPLICATIONS**

- \* Suitable for video output stages in TV sets
- \* Switching power supplies

COMPLEMENTARY TYPE – BF620

PARTMARKING DETAIL – DF


**ABSOLUTE MAXIMUM RATINGS.**

PARAMETER	SYMBOL	VALUE	UNIT
Collector-Base Voltage	$V_{CBO}$	-300	V
Collector-Emitter Voltage	$V_{CEO}$	-300	V
Emitter-Base Voltage	$V_{EBO}$	-5	V
Peak Pulse Current	$I_{CM}$	-100	mA
Continuous Collector Current	$I_C$	-50	mA
Power Dissipation at $T_{amb}=25^{\circ}C$	$P_{tot}$	-1	W
Operating and Storage Temperature Range	$T_j; T_{stg}$	-65 to +150	$^{\circ}C$

**ELECTRICAL CHARACTERISTICS (at  $T_{amb} = 25^{\circ}C$  unless otherwise stated).**

PARAMETER	SYMBOL	MIN.	MAX.	UNIT	CONDITIONS.
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	-300		V	$I_C = -10\mu A, I_E = 0$
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	-300		V	$I_C = -1mA, I_B = 0^*$
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	-5		V	$I_E = -100\mu A, I_C = 0$
Collector Cut-Off Current	$I_{CBO}$		-10 -20	nA $\mu A$	$V_{CB} = -200V, I_E = 0$ $V_{CB} = -200V, I_E = 0 \uparrow$
Collector Cut-Off Current	$I_{CER}$		-50 -10	nA $\mu A$	$V_{CE} = -200V, R_{BE} = 2.7K\Omega$ $V_{CE} = -200V, R_{BE} = 2.7K\Omega \uparrow$
Emitter Cut-Off Current	$I_{EBO}$		-10	$\mu A$	$V_{EB} = -5V, I_C = 0$
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$		-0.6	V	$I_C = -30mA, I_B = -5mA^*$
Base-Emitter Saturation Voltage	$V_{BE(sat)}$		-0.9	V	$I_C = -20mA, I_B = -2mA^*$
Static Forward Current Transfer Ratio	$h_{FE}$	50			$I_C = -25mA, V_{CE} = -20V^*$
Transition Frequency	$f_T$		100 Typical	MHz	$I_C = -10mA, V_{CE} = -10V$ $f = 100MHz$
Output Capacitance	$C_{obo}$		0.8 Typical	pF	$V_{CB} = -30V, f = 1MHz$

 $\uparrow T_{amb} = 150^{\circ}C$ 

\*Measured under pulsed conditions.

For typical characteristics graphs see FMMTA92 datasheet.