

[查询BFW92供应商](#)

捷多邦，专业PCB打样工厂，24小时加急出货

25C D ■ 8235605 0004731 7 ■ SIEG

T-3/-15

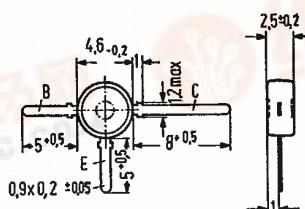
NPN Silicon RF Broadband Transistors

BFW 92
2 N 6621

SIEMENS AKTIENGESELLSCHAFT

BFW 92 is an epitaxial NPN silicon planar RF transistor in a plastic package similar to TO 119 (50 B 3 DIN 41867); intended for use as RF amplifier up to the GHz range, e. g. for broadband antenna amplifiers. This transistor is also available upon request as JEDEC version under the designation 2N6621.

Type	Ordering code
BFW 92	Q62702-F321
2 N 6621	Q68000-A4669



Approx. weight 0.3 g Dimensions in mm

Maximum ratings

	BFW 92 2 N 6621	
Collector-base voltage	25	V
Collector-emitter voltage	15	V
Emitter-base voltage	2.5	V
Collector current	25	mA
Collector peak current ($f > 1$ MHz)	50	mA
Junction temperature	150	°C
Storage temperature range	-55 to +125	°C
Total power dissipation ($T_{amb} = 70$ °C)	200	mW

Thermal resistance

Junction to ambient air
(mounted on glass fiber epoxy resin
PCB 40 mm x 25 mm x 1 mm)

R_{thJA} | 400 | K/W

25C D ■ 8235605 0004732 ■ SIEG
 25C 04732 D T-31-15

BFW 92
 2N6621

SIEMENS AKTIENGESELLSCHAFT

Static characteristics ($T_{amb} = 25^\circ C$)

Collector cutoff current ($V_{CBO} = 10 \text{ V}$)	I_{CBO}	≤ 50	nA
Collector-emitter saturation voltage ¹⁾ ($I_C = 20 \text{ mA}$)	V_{CEsat}	≤ 0.75	V
DC current gain ($I_C = 2 \text{ mA}; V_{CE} = 1 \text{ V}$)	h_{FE}	20 to 150	-
($I_C = 25 \text{ mA}; V_{CE} = 1 \text{ V}$)	h_{FE}	≥ 20	-

Dynamic characteristics ($T_{amb} = 25^\circ C$)

Transition frequency ($I_C = 14 \text{ mA}; V_{CE} = 5 \text{ V}; f = 200 \text{ MHz}$)	f_T	1.9	GHz
Reverse transfer capacitance ($I_C = 2 \text{ mA}; V_{CE} = 5 \text{ V}; f = 1 \text{ MHz}$)	C_{12e}	0.6	pF
Collector-base capacitance ($V_{CBO} = 10 \text{ V}; f = 1 \text{ MHz}$)	C_{CBO}	0.7	pF
Power gain ($I_C = 14 \text{ mA}; V_{CE} = 5 \text{ V}; f = 800 \text{ MHz}; R_g = 60 \Omega$)	G_{pe}	11	dB
Noise figure ($I_C = 2 \text{ mA}; V_{CE} = 5 \text{ V}; f = 800 \text{ MHz}; R_g = 60 \Omega$)	NF	4	dB
Output voltage ²⁾ ($I_C = 14 \text{ mA}; V_{CE} = 5 \text{ V}; R_g = R_L = 75 \Omega$ $d_{IM} = 60 \text{ dB}$)	V_0	150	mV

S parameter

Operating point: $I_C = 14 \text{ mA}; V_{CE} = 5 \text{ V}; Z_0 = 60 \Omega$

f (GHz)	S_{11}	φ	S_{21}	φ	S_{12}	φ	S_{22}	φ
0,1	0,445	- 73	16,307	131	0,017	58	0,810	-14
0,2	0,345	-118	10,622	109	0,027	62	0,678	-19
0,3	0,313	-142	7,400	98	0,034	64	0,646	-19
0,4	0,309	-157	5,750	90	0,043	65	0,611	-19
0,5	0,311	-169	4,628	84	0,051	69	0,594	-22
0,6	0,315	-178	3,919	80	0,059	72	0,617	-24
0,7	0,326	173	3,362	76	0,067	72	0,601	-23
0,8	0,337	168	2,926	71	0,077	73	0,572	-26
0,9	0,349	164	2,622	68	0,085	73	0,576	-31
1,0	0,357	159	2,344	63	0,094	74	0,602	-33

1) Applicable to that characteristic passing through $I_C = 22 \text{ mA}; V_{CE} = 1 \text{ V}$ at constant I_B .

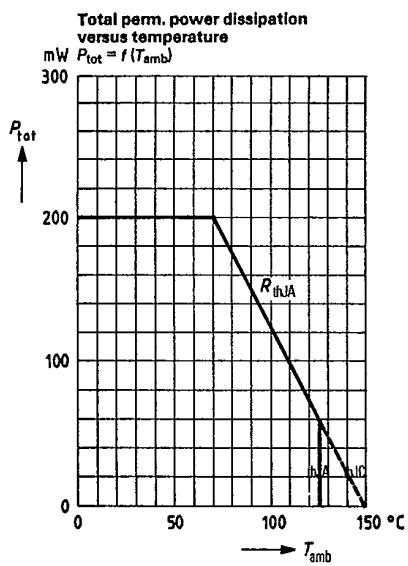
2) Measured with three tone modulation / approx. 800 MHz

25C D ■ 8235605 0004733 0 ■ SIEG

25C 04733 D T-31-15

BFW 92
2 N 6621

SIEMENS AKTIENGESELLSCHAFT



2110

D-05

779