PNP Silicon Planar Transistor

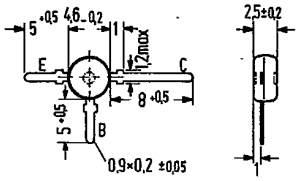
BF 979 S

SIEMENS AKTIENGESELLSCHAF 5C 04584 D

BF 979 S is a PNP silicon planar transistor in low-capacitance plastic package similar to TO 119 (50 B 3 DIN 41867).

The transistor is particularly suitable for use in uncontrolled UHF and VHF input stages featuring low cross modulation.

Type	Ordering code
BF 979 S	Q62702-F610



Approx. weight 0.25 g Dimensions in mm

Maximum ratings

Collector-emitter voltage	$-V_{CEO}$	25	V
Collector-base voltage	$-V_{CBS}$	30	V
Emitter-base voltage	$-V_{EBO}$	3	V
Collector current	$-I_C$	50	mA
Junction temperature	T_j	150	°C
Storage temperature range	T_{stg}	–50 to +150	°C
Total power dissipation	P_{tot}	160	mW

Thermal resistance

Junction to ambient air	R_{thJA}	<600	K/W

Static characteristics (T_{amb} = 25°C)

Collector cutoff current ($-V_{CBO}$ = 20 V)	$-I_{CBO}$	<100	nA
DC power gain ($-I_C$ = 10 mA; $-V_{CE}$ = 10 V)	h_{FE}	>20	–

Dynamic characteristics (T_{amb} = 25°C)

Transistion frequency ($-I_C$ = 10 mA; $-V_{CE}$ = 10 V; f = 100 MHz)	f_T	1.6	GHz
Reverse transfer capacitance ($-V_{CE}$ = 1 V; f = 1 MHz)	$C_{12\,b}$	90	fF
Collector-base capacitance ($-V_{CB}$ = 10 V; f = 1 MHz)	$-C_{CBO}$	0.55	pF
Noise figure ($-I_C$ = 10 mA; $-V_{CB}$ = 10 V; f_M = 200 MHz; R_g = 60 Ω)	NF	3	dB
Noise figure ($-I_C$ = 10 mA; $-V_{CB}$ = 10 V; f_M = 800 MHz; R_g = 60 Ω)	NF	<4.5	dB
Power gain ($-I_C$ = 10 mA; $-V_{CB}$ = 10 V; f_M = 800 MHz; R_L = 500 Ω)	G_{pb}	16.5	dB
Interference voltage[1] ($-I_C$ = 10 mA; $-V_{CB}$ = 10 V; f_M = 200 MHz; R_g = 75 Ω)	$V_{int\ 1\%}$	230	mV
Collector current for G_{pbmax} ($-V_{CB}$ = 10 V; f_M = 800 MHz; R_L = 500 Ω)	I_C	>10	mA

1) V_{int} 1% is the rms value of half the EMF of a 100% sine modulated TV carrier with R_g = 75 Ω, which causes 1% AM on the useful carrier.

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