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BF579/BF579R

Vishay Telefunken

Silicon PNP Planar RF Transistor WWW.DZSC.

Electrostatic sensitive device. Observe precautions for handling.

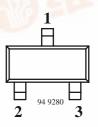


Applications

UHF/VHF uncontrolled prestages with low noise and low cross modulation.

Features

- WWW.DZSC.COM High transition frequency
- Low distortion •





BF579 Marking: G7 Plastic case (SOT 23) 1 = Collector, 2 = Base, 3 = Emitter

Absolute Maximum Ratings

 $T_{amb} = 25^{\circ}C$, unless otherwise specified

and						
Parameter	Test Conditions	Symbol	Value	Unit		
Collector-base voltage		-V _{CBO}	20	V		
Collector-emitter voltage		-V _{CEO}	20	V		
Emitter-base voltage	This way	-V _{EBO}	3	V		
Collector current	C.COM	-I _C	25	mA		
Total power dissipation	$T_{amb} \le 60 \degree C$	P _{tot}	200	mW		
Junction temperature		Ti	150	°C		
Storage temperature range		T _{stg}	-55 to +150	°C		

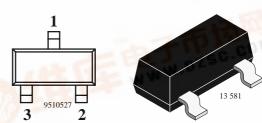
Maximum Thermal Resistance

 $T_{amb} = 25^{\circ}C$, unless otherwise specified

Parameter	Test Conditions	Symbol	Value	Unit
Junction ambient	on glass fibre printed board (25 x 20 x 1.5) mm ³ plated with 35μ m Cu	R _{thJA}	450	K/W
	plated with South Od			



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BF579R Marking: GG Plastic case (SOT 23) 1 = Collector, 2 = Base, 3 = Emitter

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Electrical DC Characteristics

 T_{amb} = 25°C, unless otherwise specified

Parameter	Test Conditions	Symbol	Min	Тур	Max	Unit
Collector cut-off current	$-V_{CE} = 20 V, V_{BE} = 0$	-I _{CES}			100	μA
Collector-base cut-off current	$-V_{CB} = 15 \text{ V}, \text{ I}_{E} = 0$	–I _{CBO}			100	nA
Emitter-base cut-off current	$-V_{EB} = 3 \text{ V}, \text{ I}_{C} = 0$	-I _{EBO}			10	μA
Collector-emitter breakdown voltage	–I _C = 1 mA, I _B = 0	-V _{(BR)CEO}	20			V
DC forward current transfer ratio	–V _{CE} = 10 V, –I _C = 10 mA	h _{FE}	20	50	90	

Electrical AC Characteristics

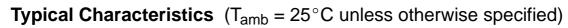
 $T_{amb} = 25^{\circ}C$, unless otherwise specified

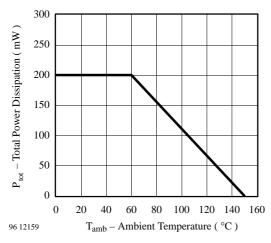
Parameter	Test Conditions	Sym-	Min	Тур	Max	Unit
		bol				
Transition frequency	$-V_{CE} = 10 \text{ V}, -I_{C} = 10 \text{ mA}, \text{ f} = 100 \text{ MHz}$	f _T		1750		MHz
Collector-base capacitance	–V _{CB} = 10 V, f = 1 MHz	C _{cb}		0.55		pF
Noise figure	$-V_{CE}$ = 10 V, $-I_{C}$ = 10 mA, Z _S = 50 Ω , f = 800 MHz	F		3.4	4.2	dB
Power gain	$-V_{CE} = 10 \text{ V}, -I_{C} = 10 \text{ mA}, Z_{S} = 50 \Omega, Z_{L}$ = 500 Ω , f = 800 MHz	G _{pb}		16		dB

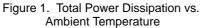


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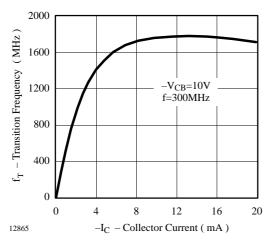


Figure 2. Transition Frequency vs. Collector Current

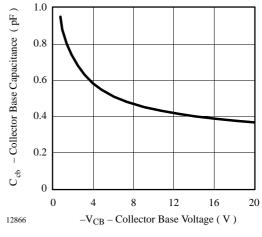


Figure 3. Collector Base Capacitance vs. Collector Base Voltage

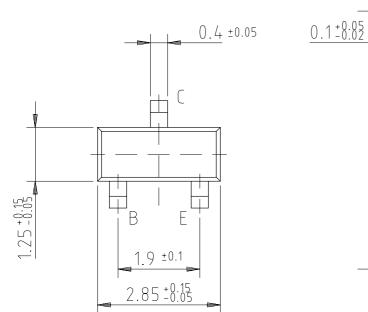
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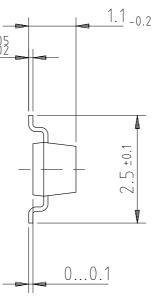


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Dimensions of BF579 in mm

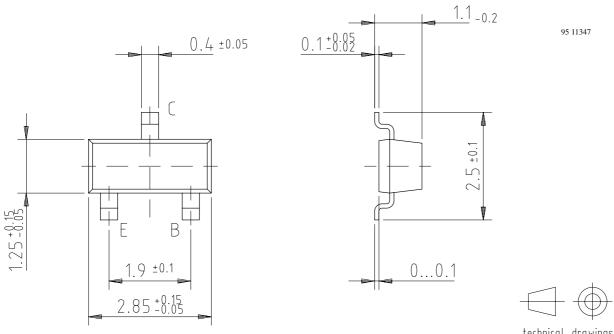






technical drawings according to DIN specifications

Dimensions of BF579R in mm



technical drawings according to DIN specifications



Ozone Depleting Substances Policy Statement

It is the policy of Vishay Semiconductor GmbH to

1. Meet all present and future national and international statutory requirements.

2. Regularly and continuously improve the performance of our products, processes, distribution and operating systems with respect to their impact on the health and safety of our employees and the public, as well as their impact on the environment.

It is particular concern to control or eliminate releases of those substances into the atmosphere which are known as ozone depleting substances (ODSs).

The Montreal Protocol (1987) and its London Amendments (1990) intend to severely restrict the use of ODSs and forbid their use within the next ten years. Various national and international initiatives are pressing for an earlier ban on these substances.

Vishay Semiconductor GmbH has been able to use its policy of continuous improvements to eliminate the use of ODSs listed in the following documents.

- 1. Annex A, B and list of transitional substances of the Montreal Protocol and the London Amendments respectively
- 2. Class I and II ozone depleting substances in the Clean Air Act Amendments of 1990 by the Environmental Protection Agency (EPA) in the USA
- 3. Council Decision 88/540/EEC and 91/690/EEC Annex A, B and C (transitional substances) respectively.

Vishay Semiconductor GmbH can certify that our semiconductors are not manufactured with ozone depleting substances and do not contain such substances.

We reserve the right to make changes to improve technical design and may do so without further notice. Parameters can vary in different applications. All operating parameters must be validated for each customer application by the customer. Should the buyer use Vishay-Telefunken products for any unintended or unauthorized application, the buyer shall indemnify Vishay-Telefunken against all claims, costs, damages, and expenses, arising out of, directly or indirectly, any claim of personal damage, injury or death associated with such unintended or unauthorized use.

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