

BA980

Vishay Semiconductors

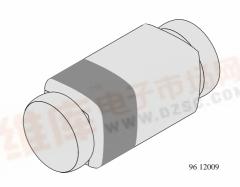
RF PIN Diode WWW.DZSC.COM

Features

Wide frequency range 10 MHz to 1 GHz

Applications

Current controlled HF resistance in adjustable WWW.DZSC.COM attenuators



Order Instruction

Туре	Ordering Code	Remarks
DA000	BA980 – GS08	Tape and Reel (2.500 pcs)
BA980	BS980 – GS18	Tape and Reel (10.000 pcs)

Absolute Maximum Ratings

 $T_i = 25^{\circ}C$

Parameter	Test Conditions	Type	Symbol	Value	Unit
Reverse voltage			V_{R}	30	V
Forward current			Ι _F	50	mΑ
Junction temperature			T _i	125	O°
Storage temperature range			T _{sta}	-55+125	°C

Maximum Thermal Resistance

 $T_i = 25^{\circ}C$

Parameter Test Conditions		Symbol	Value	Unit
Junction ambient	on PC board 50mmx50mmx1.6mm	R _{thJA}	500	K/W

Electrical Characteristics

 $T_i = 25^{\circ}C$

Parameter	Test Conditions	Type	Symbol	Min	Тур	Max	Unit
Forward voltage	I _F =20mA		V_{F}	ALW Y	1.0-	1	V
Reverse current	V _R =30 V	10074	IR			50	nA
Diode capacitance	f=100MHz, V _R =0	((())	C_{D}			0.5	pF
Differential forward resistance	f=100MHz, I _F =1.5mA		r _f	40		60	Ω
Reverse impedance	f=100MHz, V _R =0		Z _r	5			kΩ
Minority carrier lifetime	I _F =10mA, I _R =10mA		τ		4		μS

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Characteristics $(T_j = 25^{\circ}C \text{ unless otherwise specified})$

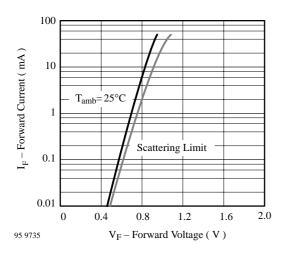
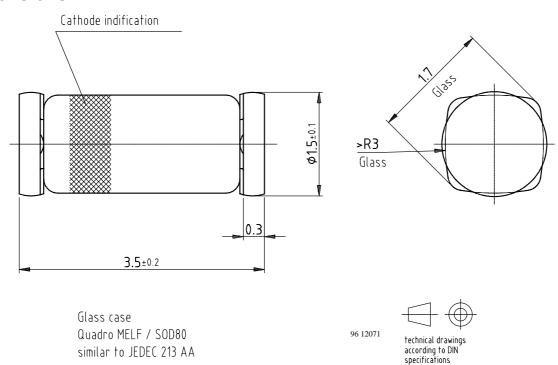


Figure 1. Forward Current vs. Forward Voltage

Dimensions in mm





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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-Semiconductors products for any unintended or unauthorized application, the buyer shall indemnify Vishay-Semiconductors 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.

> Vishay Semiconductor GmbH, P.O.B. 3535, D-74025 Heilbronn, Germany Telephone: 49 (0)7131 67 2831, Fax number: 49 (0)7131 67 2423

Document Number 85636 www.vishay.com 3 (3)