



RF PIN Diode - Single in QuadroMELF SOD80

Features

- Wide frequency range 10 MHz to 1 GHz
- Lead (Pb)-free component
- · Component in accordance to RoHS 2002/95/EC and WEEE 2002/96/EC



Applications

· Current controlled HF resistance in adjustable attenuators

Mechanical Data

Case: QuadroMELF Glass case (SOD80)

Weight: approx. 34 mg Cathode Band Color: Black **Packaging Codes/Options:**

GS18/10 k per 13" reel (8 mm tape), 10 k/box GS08/2.5 k per 7" reel (8 mm tape), 12.5 k/box

Parts Table

Part	Ordering code	Type Marking	Remarks
BA980	BA980-GS18 or BA980-GS08	-	Tape and Reel (2.500 pcs)

Absolute Maximum Ratings

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

Parameter	Test condition	Symbol	Value	Unit
Reverse voltage		V_{R}	30	V
Forward continuous current		I _F	50	mA

Thermal Characteristics

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

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Parameter	Test condition	Symbol	Value	Unit
Thermal resistance junction to ambient air	on PC board 50 mm x 50 mm x 1.6 mm	R _{thJA}	500	K/W
Junction temperature		T _j	125	ô
Storage temperature range		T _{stg}	- 55 to + 125	°C

Electrical Characteristics

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

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Parameter	Test condition	Symbol	Min	Тур.	Max	Unit
Forward voltage	I _F = 20 mA	V _F			1000	mV
Reverse current	V _R = 30 V	I _R			50	nA
Diode capacitance	f = 100 MHz, V _R = 0	C _D			0.5	pF
Differential forward resistance	f = 100 MHz, I _F = 1.5 mA	r _f	40		60	Ω
Reverse impedance	f = 100 MHz, V _R = 0	z _r	5			kΩ
Minority carrier lifetime	I _F = 10 mA, I _R = 10 mA	τ		4		μs

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Typical Characteristics

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

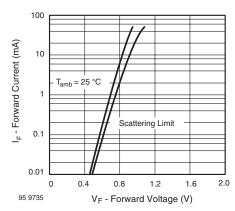
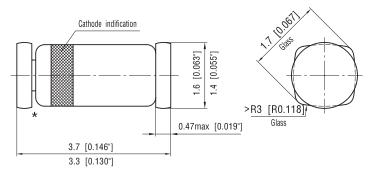
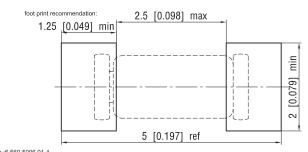


Figure 1. Forward Current vs. Forward Voltage

Package Dimensions in mm (Inches): SOD80



★ The gap between plug and glass can be either on cathode or anode side



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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.

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