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Vishay Telefunken

96 12315

Silicon Planar Diodes WWW.DZSC.COM

Features

- Saving space
- Hermetic sealed parts
- Fits onto SOD 323 footprints
- Electrical data identical with the devices BA682.BA683 / BA982.BA983
- W.DZSC.COM Low differential forward resistance
- Low diode capacitance
- High reverse impedance

Applications

Band switching in VHF-tuners

Absolute Maximum Ratings

 $T_i = 25^{\circ}C$

Parameter	Test Conditions	Туре	Symbol	Value	Unit
Reverse voltage			V _R	35	V
Forward current			۱ _F	100	mA
Junction temperature			Ti	150	°C
Storage temperature range		152	T _{stq}	-55+150	°C

Maximum Thermal Resistance

$T_i = 25^{\circ}C$

Parameter	Test Conditions	Symbol	Value	Unit
Junction ambient	mounted on epoxy–glass hard tissue, Fig. 1 35μm copper clad, 0.9 mm ² copper area per electrode	R _{thJA}	500	K/W



BA1282.BA1283

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Тj	=	25°	C	

Parameter	Test Conditions	Туре	Symbol	Min	Тур	Max	Unit
Forward voltage	I _F =100mA		VF			1	V
Reverse current	V _R =20V		I _R			50	nA
Diode capacitance	f=100MHz, V _R =1V		CD			1.5	pF
	f=100MHz, V _R =3V	BA1282	CD			1.25	pF
	f=100MHz, V _R =3V	BA1283	CD			1.2	pF
Differential forward	f=200MHz, I _F =3mA	BA1282	r _f			0.7	Ω
resistance	f=200MHz, I _F =3mA	BA1283	r _f			1.2	Ω
	f=200MHz, I _F =10mA	BA1282	r _f			0.5	Ω
	f=200MHz, I _F =10mA	BA1283	r _f			0.9	Ω

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

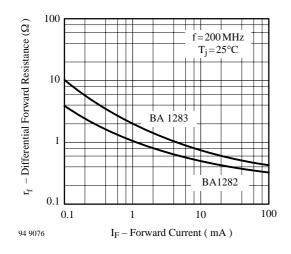


Figure 1. Differential Forward Resistance vs. Forward Current

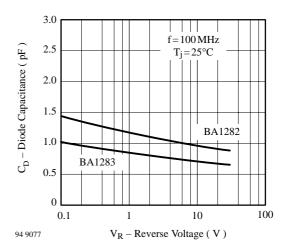


Figure 2. Diode Capacitance vs. Reverse Voltage



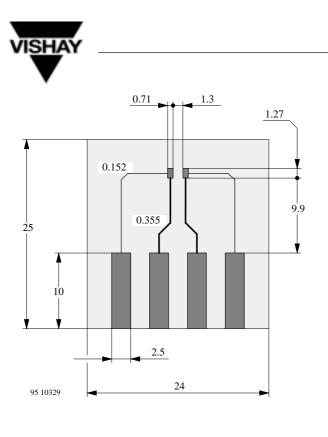


Figure 3. Board for R_{thJA} definition (in mm)

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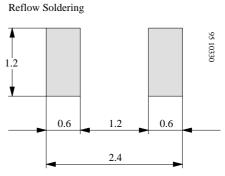


Figure 4. Recommended foot pads (in mm)



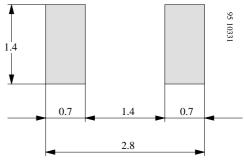
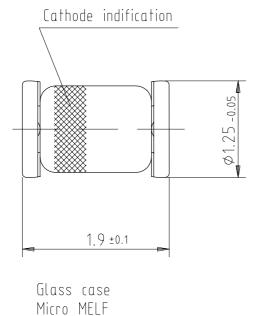
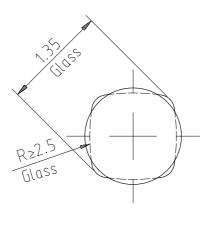


Figure 5. Recommended foot pads (in mm)

Dimensions in mm









technical drawings according to DIN specifications

BA1282.BA1283

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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-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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