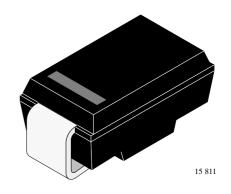


Schottky Barrier Rectifier

Features

- High efficiency
- Low power losses
- Very low switching losses
- Low reverse current
- High surge capability



Applications

Polarity protection Low voltage, high frequency rectifiers

Absolute Maximum Ratings

 $T_i = 25^{\circ}C$

Parameter	Test Conditions	Type	Symbol	Value	Unit
Reverse voltage			V_R	90	V
=Repetitive peak reverse voltage			=V _{RRM}		
Peak forward surge current	t _p =10ms, half sinewave		I_{FSM}	30	Α
Average forward current			I _{FAV}	1.5	Α
Junction and storage temperature range			T _i =T _{stq}	<i>–</i> 55+150	°C

Maximum Thermal Resistance

 $T_i = 25^{\circ}C$

Parameter	Test Conditions	Symbol	Value	Unit
Junction lead	T _L =constant	R _{thJL}	25	K/W
Junction ambient	mounted on epoxy–glass hard tissue		150	K/W
	mounted on epoxy–glass hard tissue, 50mm ² 35μm Cu	R _{thJA}	125	K/W
	mounted on Al-oxid-ceramic (Al ₂ O ₃), 50mm ² 35μm Cu	R _{th,JA}	100	K/W

Electrical Characteristics

 $T_i = 25^{\circ}C$

Parameter	Test Conditions	Type	Symbol	Min	Тур	Max	Unit
Forward voltage	I _F =1A		V_{F}			900	mV
	I _F =15mA		V_{F}			360	mV
Reverse current	$V_R = V_{RRM}$		I _R			200	μΑ
	V _R =V _{RRM} , T _i =100°C		I _R			2	mA

Vishay Telefunken



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

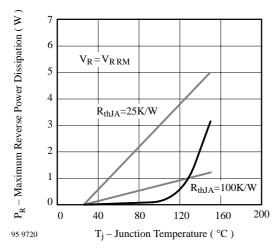


Figure 1. Max. Reverse Power Dissipation vs.
Junction Temperature

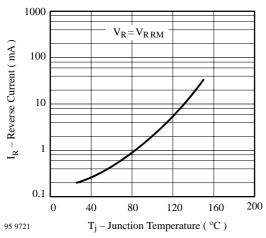


Figure 2. Max. Reverse Current vs. Junction Temperature

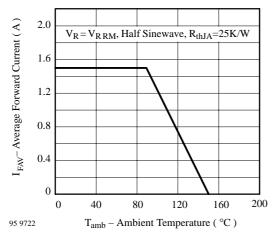


Figure 3. Max. Average Forward Current vs. Ambient Temperature

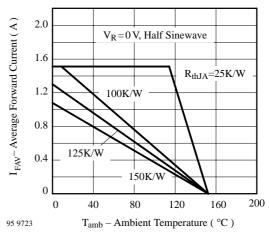


Figure 4. Max. Average Forward Current vs. Ambient Temperature

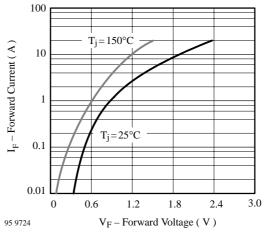
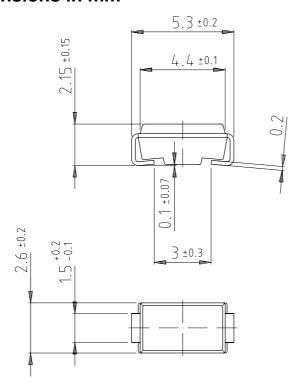


Figure 5. Max. Forward Current vs. Forward Voltage



Vishay Telefunken

Dimensions in mm





Plastic case JEDEC DO 214 similar to SMA Cathode indicated by a band



14275

technical drawings according to DIN specifications

Vishay Telefunken



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.

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

This datasheet has been downloaded from:

www. Data sheet Catalog.com

Datasheets for electronic components.