查询BYG21供应商



BYG21

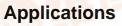
Vishay Telefunken

15 811

Fast Silicon Mesa SMD Rectifier

Features

- Glass passivated junction
- Low reverse current
- Soft recovery characteristics
- Fast reverse recovery time
- Good switching characteristics
- Wave and reflow solderable



Surface mounting Fast rectifier Freewheeling diodes in SMPS and converters Snubber diodes

Absolute Maximum Ratings

 $T_i = 25^{\circ}C$

Parameter	Test Conditions	Туре	Symbol	Value	Unit
Reverse voltage		BYG21K	V _R =V _{RRM}	800	V
=Repetitive peak reverse voltage		BYG21M	V _R =V _{RRM}	1000	V
Peak forward surge current	t _p =10ms, half sinewave		IFSM	30	A
Average forward current	20		I _{FAV}	1.5	А
Junction and storage temperature range		SP4.	T _j =T _{stg}	-55+150	°C
Pulse energy in avalanche mode, non repetitive (inductive load switch off)	I _{(BR)R} =1A, Tj=25°C		E _R	20	mJ

Maximum Thermal Resistance

$T_j = 25^{\circ}C$					
Parameter	Test Conditions	Symbol	Value	Unit	
Junction lead	T _L =const.	R _{thJL}	25	K/W	
Junction ambient	mounted on epoxy–glass hard tissue	R _{thJA}	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 _{thJA}	100	K/W	



BYG21

Vishay Telefunken



 $T_i = 25^{\circ}C$

Parameter	Test Conditions	Туре	Symbol	Min	Тур	Max	Unit
Forward voltage	I _F =1A		V _F			1.5	V
	I _F =1.5A		V _F			1.6	V
Reverse current	V _R =V _{RRM}		I _R			1	μΑ
	V _R =V _{RRM} , T _j =100°C		I _R			10	μA
Reverse recovery time	I _F =0.5A, I _R =1A, i _R =0.25A		t _{rr}			120	ns

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

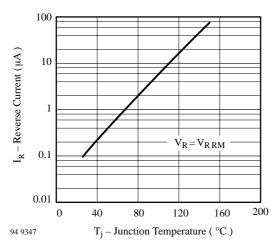


Figure 1. Typ. Reverse Current vs. Junction Temperature

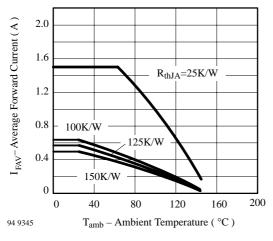
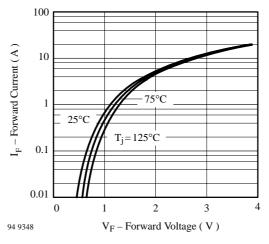


Figure 2. Max. Average Forward Current vs. Ambient Temperature



/ISH/

Figure 3. Typ. Forward Current vs. Forward Voltage

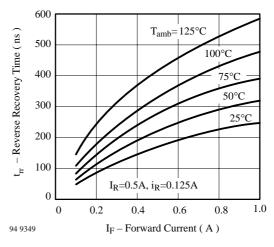


Figure 4. Max. Reverse Recovery Time vs. Forward Current



BYG21 Vishay Telefunken

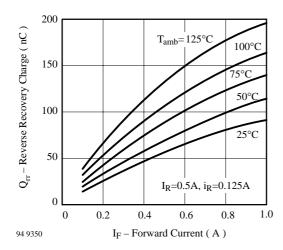


Figure 5. Max. Reverse Recovery Charge vs. Forward Current

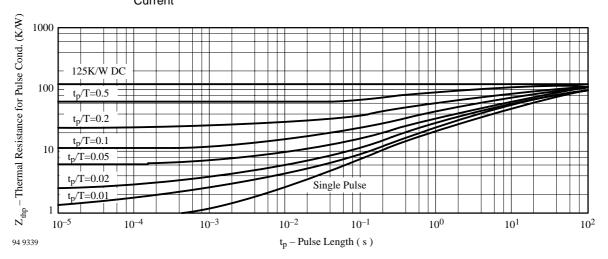


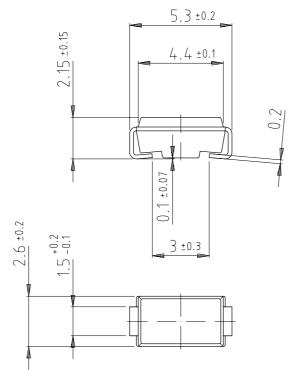
Figure 6. Thermal Response

BYG21



Vishay Telefunken

Dimensions in mm





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



techr accor 14275 speci

technical drawings according to DIN specifications



BYG21 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