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Fast Silicon Mesa Rectifiers

Features

- Glass passivated junction
- Hermetically sealed package
- Soft recovery characteristic
- Low reverse current

Applications

Fast rectifier and switch for example for TV–line output circuits and switch mode power supply

Absolute Maximum Ratings

$T_j = 25^{\circ}C$					
Parameter	Test Conditions	Туре	Symbol	Value	Unit
Reverse voltage	250.0-	BYV12	V _R =V _{RRM}	100	V
=Repetitive peak reverse voltage		BYV13	V _R =V _{RRM}	400	V
		BYV14	V _R =V _{RRM}	600	V
		BYV15	V _R =V _{RRM}	800	V
		BYV16	V _R =V _{RRM}	1000	V
Peak forward surge current	t _p =10ms, half sinewave	1025	IFSM	40	A
Repetitive peak forward current	80	-1 TO-1	IFRM	9	А
Average forward current	φ=180°, T _{amb} =25°C		I _{FAV}	1.5	А
Junction and storage temperature range	DIG.COM		T _j =T _{stg}	-65+175	°C

Maximum Thermal Resistance

 $T_i = 25^{\circ}C$

Parameter	Test Conditions	Symbol	Value	Unit
Junction ambient	I=10mm, T _L =constant	R _{thJA}	45	K/W
	on PC board with spacing 25mm	R _{thJA}	100	K/W

Electrical Characteristics

 $T_i = 25^{\circ}C$

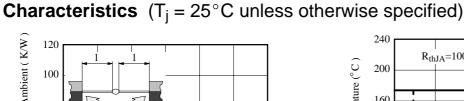
Parameter	Test Conditions	Туре	Symbol	Min	Тур	Max	Unit
Forward voltage	I _F =1A		V _F			1.5	V
Reverse current	V _R =V _{RRM}		I _R		1	5	μΑ
- 192	V _R =V _{RRM} , T _j =150°C		I _R		60	150	μΑ
Reverse recovery time	I _F =0.5A, I _R =1A, i _R =0.25A		t _{rr}			300	ns
Reverse recovery charge	I _F =1A, di/dt=5A/μs		Q _{rr}			200	nC

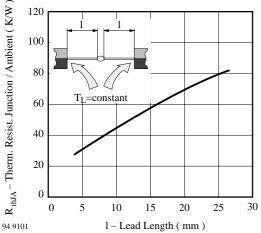


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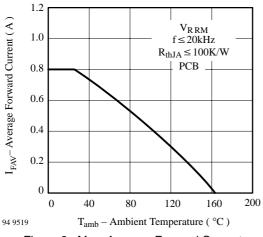


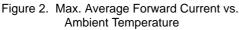
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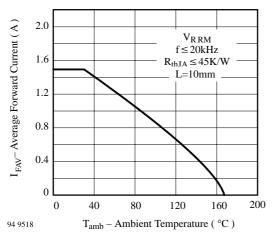


Figure 3. Max. Average Forward Current vs. Ambient Temperature

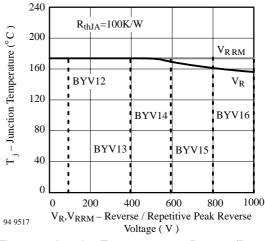


Figure 4. Junction Temperature vs. Reverse/Repetitive Peak Reverse Voltage

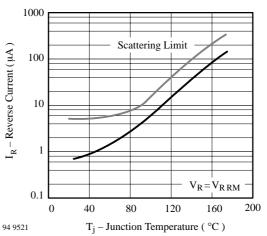


Figure 5. Reverse Current vs. Junction Temperature

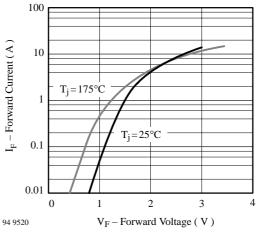


Figure 6. Max. Forward Current vs. Forward Voltage



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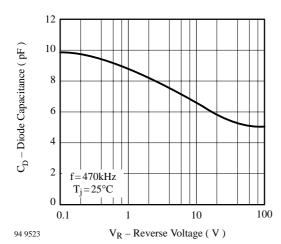
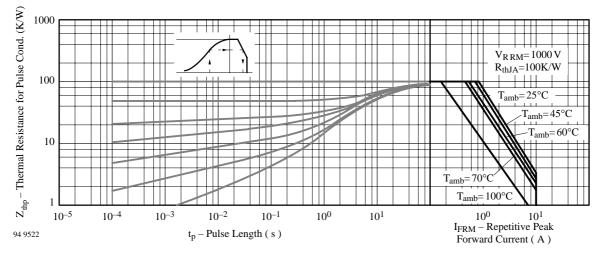
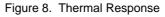
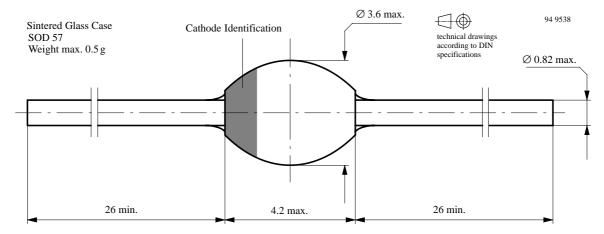


Figure 7. Typ. Diode Capacitance vs. Reverse Voltage





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-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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