

BY448.BY458

Vishay Telefunken

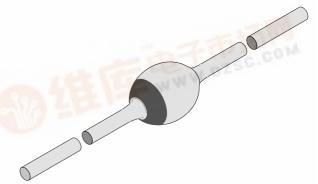
Silicon Mesa Rectifiers

Features

- Glass passivated junction
- Hermetically sealed package



High voltage rectifier
Efficiency diode in horizontal deflection circuits



94 9539

Absolute Maximum Ratings

 $T_i = 25^{\circ}C$

Parameters	Test Conditions	Туре	Symbol	Value	Unit
Reverse voltage	0750.0	BY448	V_{R}	1500	V
LE WWY		BY458	V_{R}	1200	V
Peak forward surge current	t _p =10ms, half sinewave		I _{FSM}	30	A
Average forward current			I _{FAV}	2	Α
Junction temperature			T_i	140	°C
Storage temperature range		1 th	T _{stg}	−55+150	°C

Maximum Thermal Resistance

 $T_i = 25^{\circ}C$

Parameter	Test Conditions	Symbol Value		Unit
Junction ambient	on PC board with spacing 25mm	R _{thJA}	100	K/W

Electrical Characteristics

 $T_i = 25^{\circ}C$

Parameter	Test Conditions	Type	Symbol	Min	Тур	Max	Unit
Forward voltage	I _F =3A		V_{F}			1.6	V
Reverse current	$V_R = V_{RSM}$		I _R			3	μΑ
LEE THE WY	V _R =V _{RSM} , T _i =140°C		I _R			140	μΑ
Total reverse recovery time	I _F =1A, d _{iF} /d _t =0.05A/μs		t _{rr}			20	μs

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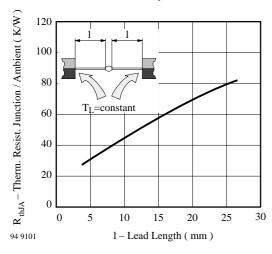


Scattering Limit

2.4

3.0

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





 I_F – Forward Current (A)

100

10

0.1

 $T_j = 25$ °C

Figure 1. Typ. Thermal Resistance vs. Lead Length



V_F - Forward Voltage (V)

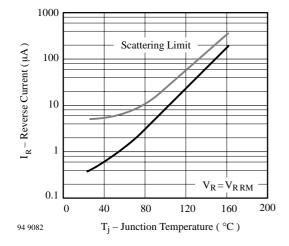
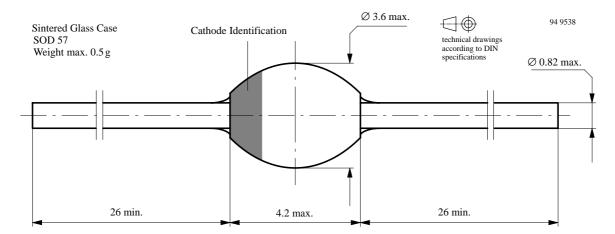


Figure 2. Reverse Current vs. Junction Temperature

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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