查询BAY80_08供应商



BAY80

Vishay Semiconductors

94 9367

Small Signal Switching Diode, High Voltage

Features

- Silicon Epitaxial Planar Diode
- · Lead (Pb)-free component
- Component in accordance to RoHS 2002/95/EC and WEEE 2002/96/EC

Applications

General purpose

Mechanical Data

Case: DO35 Glass case

Weight: approx. 125 mg Cathode Band Color: black

Packaging Codes/Options:

TR/10 k per 13" reel (52 mm tape), 50 k/box TAP/10 k per Ammopack (52 mm tape), 50 k/box DZSC.COM

Parts Table

Part	Ordering code	Type Marking	Remarks	
BAY80	BAY80-TR or BAY80-TAP	BAY80	Tape and Reel/Ammopack	

e₂

Absolute Maximum Ratings

 $T_{amb} = 25 \text{ °C}$, unless otherwise specified

allio,				
Parameter	Test condition	Symbol	Value	Unit
Repetitive peak reverse voltage	12.60	V _{RRM}	150	V
Reverse voltage	TTOMON	V _R	120	V
Peak forward surge current	t _p = 1 μs	I _{FSM}	1	A
Repetitive peak forward current	A1 44	I _{FRM}	625	mA
Forward continuous current		I _F	250	mA
Average forward current		I _{FAV}	200	mA

Thermal Characteristics

 T_{amb} = 25 °C, unless otherwise specified

Parameter	Test condition	Symbol	Value	Unit
Thermal resistance junction to ambient air	I = 4 mm, T _L = constant	R _{thJA}	350	K/W
Junction to ambient air	Magal	Тj	+ 175	°C
Storage temperature range	150.00	T _{stg}	- 65 to + 175	°C



BAY80

Vishay Semiconductors



Electrical Characteristics

$T_{amb} = 25 \ ^{\circ}C$, unless otherwise specified

Parameter	Test condition	Symbol	Min	Тур.	Max	Unit
Forward voltage	I _F = 0.1 mA	V _F	400		520	mV
	I _F = 10 mA	V _F	630		780	mV
	I _F = 50 mA	V _F	730		920	mV
	I _F = 100 mA	V _F	780		1000	mV
	I _F = 150 mA	V _F			1070	mV
Reverse current	V _R = 120 V	I _R			100	nA
	V _R = 120 V, T _j = 150 °C	I _R			100	μA
Breakdown voltage	$I_{R} = 100 \ \mu A, \ t_{p}/T = 0.01, \ t_{p} = 0.3 \ ms$	V _(BR)	150			V
Diode capacitance	V _R = 0, f = 1 MHz	CD		1.5	5	pF
Differential forward resistance	I _F = 10 mA	r _f		5		Ω
Reverse recovery time	$I_{F} = I_{R} = 30 \text{ mA}, i_{R} = 3 \text{ mA},$ $R_{L} = 100 \Omega$	t _{rr}			50	ns

Typical Characteristics T_{amb} = 25 °C, unless otherwise specified

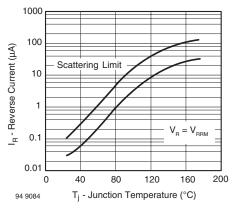


Figure 1. Reverse Current vs. Junction Temperature

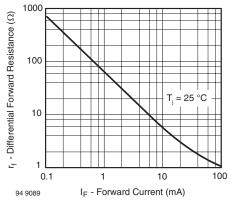


Figure 3. Differential Forward Resistance vs. Forward Current

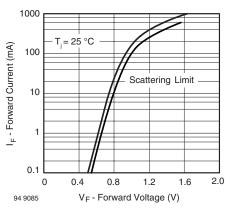


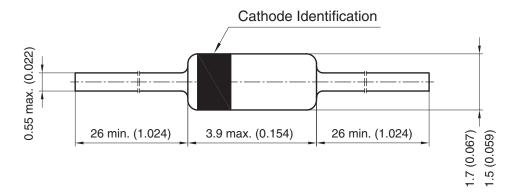
Figure 2. Forward Current vs. Forward Voltage



BAY80

Vishay Semiconductors

Package Dimensions in millimeters (inches): DO35



Rev. 6 - Date: 29. January 2007 Document no.: 6.560-5004.02-4 94 9366

Vishay Semiconductors



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 Semiconductors products for any unintended or unauthorized application, the buyer shall indemnify Vishay Semiconductors 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



Legal Disclaimer Notice

Vishay

Disclaimer

All product specifications and data are subject to change without notice.

Vishay Intertechnology, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Vishay"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained herein or in any other disclosure relating to any product.

Vishay disclaims any and all liability arising out of the use or application of any product described herein or of any information provided herein to the maximum extent permitted by law. The product specifications do not expand or otherwise modify Vishay's terms and conditions of purchase, including but not limited to the warranty expressed therein, which apply to these products.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Vishay.

The products shown herein are not designed for use in medical, life-saving, or life-sustaining applications unless otherwise expressly indicated. Customers using or selling Vishay products not expressly indicated for use in such applications do so entirely at their own risk and agree to fully indemnify Vishay for any damages arising or resulting from such use or sale. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications.

Product names and markings noted herein may be trademarks of their respective owners.