SENSITRON SEMICONDUCTOR

SD103AWS-G - SD103CWS-G

SCHOTTKY BARRIER SWITCHING DIODE

Data Sheet 3331, Rev. - Green Products

Features

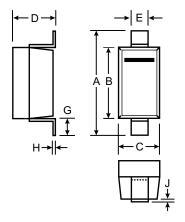
- Green Products in Compliance with the RoHS Directive
- Low Forward Voltage Drop
- Guard Ring Construction for Transient Protection
- Negligible Reverse Recovery Time
- Low Reverse Capacitance
- Ultra-Small Surface Mount Package

Mechanical Data

- Case: SOD-323, Plastic
- Polarity: Cathode Band
- Leads: Solderable per MIL-STD-202,

Method 208

- SD103AWS-G Marking: S4
- SD103BWS-G Marking: S5 or S4
- SD103CWS-G Marking: S6 or S5 or S4
- Weight: 0.004 grams (approx.)



SOD-323						
Dim	Min	Max	Min	Max		
Α	2.30	2.70	0.091	0.106		
В	1.75	1.95	0.069	0.077		
С	1.15	1.35	0.045	0.053		
D	0.25	0.35	0.010	0.014		
Е	0.05	0.15	0.002	0.006		
G	0.70	0.95	0.028	0.037		
Н	0.30	_	0.012	_		
	In mm		In inch			

Maximum Ratings @ T_A = 25°C unless otherwise specified

Characteristic	Symbol	SD103AWS-G	SD103CWS-G	Unit	
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		40	30	20	V
RMS Reverse Voltage		28	28 21		V
Forward Continuous Current (Note 1)		350			mA
Non-Repetitive Peak Forward Surge Current @ t ≤ 1.0s		1.5			Α
Power Dissipation (Note 1)		200			mW
Thermal Resistance, Junction to Ambient Air (Note 1)		625			°C/W
Operating and Storage Temperature Range		-65 to +125			°C

Electrical Characteristics @ T_A = 25°C unless otherwise specified

Characteristic		Symbol	Min	Тур	Max	Unit	Test Condition
Reverse Breakdown Voltage (Note 2)	SD103AWS-G SD103BWS-G SD103CWS-G	V _{(BR)R}	40 30 20	_	_	V	$I_R = 10\mu A$ $I_R = 10\mu A$ $I_R = 10\mu A$
Forward Voltage Drop		V _{FM}	_	_	0.37 0.60	V	I _F = 20mA I _F = 200mA
Peak Reverse Current	SD103AWS-G SD103BWS-G SD103CWS-G	I _{RM}	_	_	5.0	μА	V _R = 30V V _R = 20V V _R = 10V
Junction Capacitance		Cj	_	50	_	pF	V _R = 0V, f = 1.0MHz
Reverse Recovery Time		t _{rr}	_	10	_	ns	$I_F = I_R = 200 \text{mA},$ $I_{rr} = 0.1 \text{ x } I_R, R_L = 100 \Omega$

Notes: 1. Valid provided that leads are kept at ambient temperature.

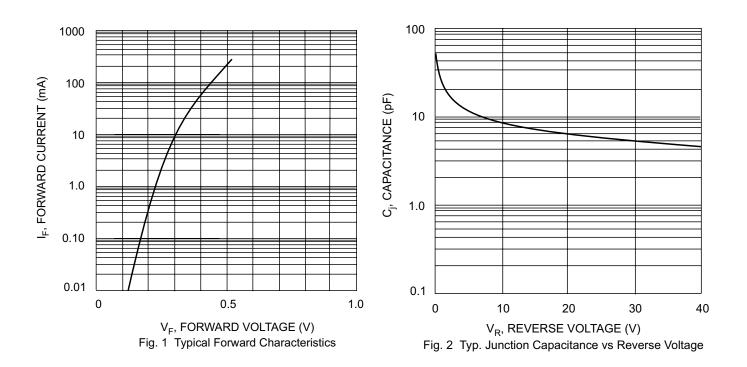
- 2. Test period <3000μs.
- 221 West Industry Court ☐ Deer Park, NY 11729-4681 ☐ (631) 586-7600 FAX (631) 242-9798
 - World Wide Web Site http://www.sensitron.com E-Mail Address sales@sensitron.com •

SD103AWS-G - SD103CWS-G

SCHOTTKY BARRIER SWITCHING DIODE

Data Sheet 3331, Rev. -

Green Products



SENSITRON

SEMICONDUCTOR

SD103AWS-G - SD103CWS-G

SCHOTTKY BARRIER SWITCHING DIODE

Data Sheet 3331, Rev. -

Green Products

DISCLAIMER:

- 1- The information given herein, including the specifications and dimensions, is subject to change without prior not ice to improve product characteristics. Before ordering, purchasers are advised to contact the Sensitron Semiconductor sales department for the latest version of the datasheet(s).
- 2- In cases where extremely high reliability is required (such as use in nuclear power control, aerospace and aviation, traffic equipment, medical equipment, and safety equipment), safety should be ensured by using semiconductor devices that feature assured safety or by means of users' fail-safe precautions or other arrangement.
- 3- In no event shall Sensitron Semiconductor be liable for any damages that may result from an accident or any other cause during operation of the user's units according to the datasheet(s). Sensitron Semiconductor assumes no responsibility for any intellectual property claims or any other problems that may result from applications of information, products or circuits described in the datasheets.
 4- In no event shall Sensitron Semiconductor be liable for any failure in a semiconductor device or any secondary damage resulting from use at a value exceeding the absolute maximum rating.
- 5- No license is granted by the datasheet(s) under any patents or other rights of any third party or Sensitron Semiconductor.
- 6- The datasheet(s) may not be reproduced or duplicated, in any form, in whole or part, without the expressed writ ten permission of Sensitron Semiconductor.
- 7- The products (technologies) described in the datasheet(s) are not to be provided to any party whose purpose in their application will hinder maintenance of international peace and safety nor are they to be applied to that purpose by their direct purchasers or any third party. When exporting these products (technologies), the necessary procedures are to be taken in accordance with related laws and regulations.