

SD103AWS - SD103CWS

SURFACE MOUNT SCHOTTKY BARRIER DIODE

Features

- Low Turn-on Voltage
- Fast Switching
- PN Junction Guard Ring for Transient and ESD Protection
- Designed for Surface Mount Application
- Plastic Material UL Recognition Flammability Classification 94V-O

Mechanical Data

Case: SOD-323, Molded Plastic

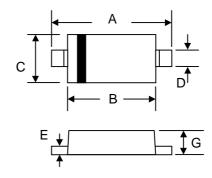
 Terminals: Plated Leads Solderable per MIL-STD-202, Method 208

Polarity: Cathode Band

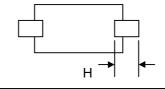
Weight: 0.004 grams (approx.)







SOD-323						
Dim	Min	Max				
Α	2.30 2.70					
В	1.75	1.95				
С	1.15	1.35				
D	0.25	0.35				
E	0.05	0.15				
G	0.70	0.95				
Н	0.30	_				
All Dimensions in mm						



Maximum Ratings @ TA = 25°C unless otherwise specified

Characteristic	Symbol	SD103AWS SD103BWS		SD103CWS	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	40 30		20	V
Forward Continuous Current (Note 1)	lF	350			mA
Non-Repetitive Peak Forward Surge Current @ t < 1.0s	İFSM	2.0			Α
Power Dissipation (Note 1)	Pd	200			mW
Typical Thermal Resistance, Junction to Ambient Air (Note 1)	$R_{ heta}$ JA	625			°C/W
Operating and Storage Temperature Range	Тj, Тsтg		°C		

Electrical Characteristics @T_A=25°C unless otherwise specified

Characteristic		Symbol	All Types	Unit	Test Condition
Reverse Breakdown Voltage	SD103AWS SD103BWS SD103CWS	V(BR)R	40 30 20	V	@ IR = 10μA, t _P < 300μS
Forward Voltage Drop		VFM	0.37 0.60	V	@ IF = 20mA @ IF = 200mA
Peak Reverse Leakage Current		IRM	5.0	μA	@ Rated DC Blocking Voltage
Typical Junction Capacitance		Cj	50	pF	V _R = 0V, f = 1.0MHz
Typical Reverse Recovery Time		trr	10	nS	$\begin{aligned} \text{IF} &= \text{IR} = 200\text{mA} \\ \text{IRR} &= 0.1 \text{ x IR, RL} = 100 \Omega \end{aligned}$

Note: 1. Valid provided that terminals are kept at ambient temperature.



