

## Micro Commercial Components Corp.

Complete Discrete Semiconductor Solutions

Part Number	SD103AW	
product family	SMALL SIGNAL SCHOTTKY DIODES	
package type	SOD-123	
VRM(PRV)	40V	
Ifsm	1.5A	
IF(AV)	350mA	
@Vf	0.37V	
@If	20mA	
Trr	10nS	
IR	5.0μΑ	
@VR	40V	
Package Qty	Tape: 3K/Reel, 120K/Ctn;	

This product is listed under the following categories where you may find similar products: Diodes

Small Signal Schottky Diodes



### **Features**

- Lead Free Finish/RoHS Compliant("P" Suffix designates RoHS Compliant. See ordering information)
- Guard Ring Protection
- Low Forward Voltage Drop
- Low Power Loss For High Efficiency
- Device Marking Code: SD103AW: S4

SD103BW: S5 SD103CW: S6

**Maximum Ratings** 

- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1
   Operating Temperature: -55°C to +125°C
- Storage Temperature: -55°C to +150°C
- Maximum Thermal Resistance; 300°C/W Junction to Ambient

MCC Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
SD103AW	40V	28V	40V
SD103BW	30V	21V	30V
SD103CW	20V	14V	20V

### Electrical Characteristics @ 25°C Unless Otherwise Specified

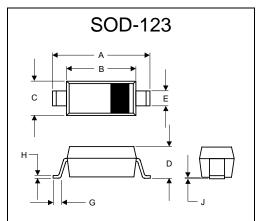
Average Forward Current	$I_{F(AV)}$	350mA	Note 1
Peak Forward Surge Current	I <sub>FSM</sub>	1.5A	t≦1.0s
Maximum Power Dissipation	$P_D$	400mW	Note 1
Maximum (Note2) Instantaneous Forward Voltage	$V_{F}$	0.37V 0.60V	I <sub>FM</sub> = 20mA I <sub>FM</sub> = 200mA
Maximum DC Reverse Current At Rated DC Blocking Voltage	I <sub>R</sub>	5.0µA	$V_R = 30V \text{ (AW)}$ $V_R = 20V \text{ (BW)}$ $V_R = 10V \text{ (CW)}$
Typical Junction Capacitance	C <sub>j</sub>	50pF	Measured at 1.0MHz, V <sub>R</sub> =0V
Typical Reverse Recovery Time	t <sub>rr</sub>	10ns	$I_F = I_R = 200 \text{mA}$ $I_{rr} = 0.1 \times I_R R_L = 100 \Omega$

Note: 1.Valid provided that electrodes are kept at ambient Temperature

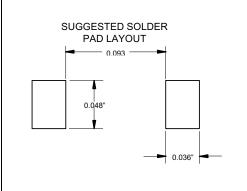
2.Pulse test: Pulse width 300 µsec, Duty cycle 2%

## SD103AW THRU SD103CW

# 400mW Small Signal Schottky Diode 20 to 40 Volts



DIMENSIONS					
DIM	INCHES			MM	NOTE
	MIN	MAX	MIN	MAX	NOTE
Α	.140	.152	3.55	3.85	
В	.100	.112	2.55	2.85	
С	.055	.071	1.40	1.80	
D		.053		1.35	
E	.012	.031	0.30	0.78	
G	.006		0.15		
Н		.010		0.25	
J		.006		0.15	





### **Ordering Information**

Device	Packing
(Part Number)-TP	Tape&Reel3Kpcs/Reel

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