

Excellent Integrated System Limited

Stocking Distributor

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Micro Commercial Components (MCC) SD103AW-TP

For any questions, you can email us directly: sales@integrated-circuit.com

Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com



Micro Commercial Components



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Features

- Halogen free available upon request by adding suffix "-HF" 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
- SD103AW: S4 Device Marking Code:

SD103BW: S5 SD103CW: S6

Maximum Ratings

- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 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% Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	350mA	Note 1
Peak Forward Surge Current	I _{FSM}	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 _{FM} = 20mA I _{FM} = 200mA
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	5.0µA	V _R = 30V (AW) V _R = 20V (BW) V _R = 10V (CW)
Typical Junction Capacitance	C _j	50pF	Measured at 1.0MHz, V _R =0V
Typical Reverse Recovery Time	t _{rr}	10ns	$I_F = I_R = 200 \text{mA}$ $I_{rr} = 0.1 \times I_R R_L = 100 \Omega$

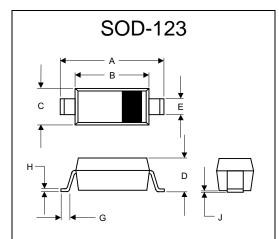
Note: 1. Valid provided that electrodes are kept at ambient

Temperature

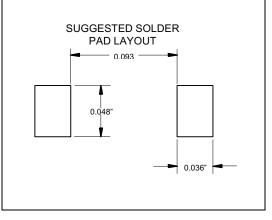
2.Pulse test: Pulse width 300 µsec, Duty cycle 2%

SD103AW THRU SD103CW

400mW Small Signal **Schottky Diode** 20 to 40 Volts



DIMENSIONS							
DIM	INCHES		MM		NOTE		
Ī	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			
Е	.012	.031	0.30	0.78			
G	.006		0.15				
Н		.010		0.25			
J		.006		0.15			



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SD103AW thru SD103CW



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Figure 1 Typical Forward Characteristics

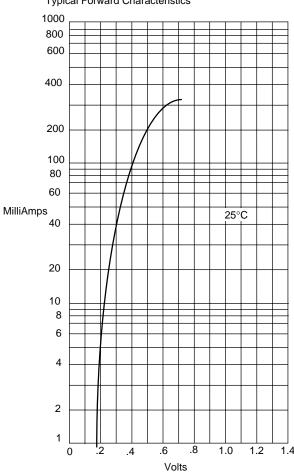
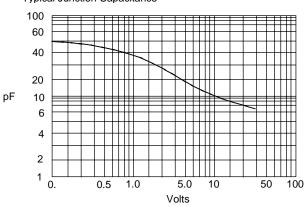
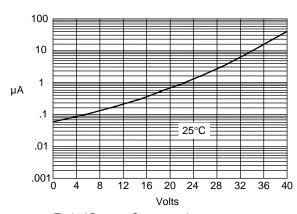


Figure 2 Typical Junction Capacitance



Junction Capacitance - pF *versus* Reverse Voltage - Volts

Figure 3 Typical Reverse Characteristics



Typical Reverse Current - mA *versus* Reverse Voltage - Volts

Distributor of Micro Commercial Components (MCC): Excellent Integrated System Limite

Datasheet of SD103AW-TP - DIODE SCHOTTKY 40V 350MA SOD123

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Ordering Information:

Device	Packing	
Part Number-TP	Tape&Reel: 3Kpcs/Reel	

Note: Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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