

# **Features**

- Low Forward Voltage Drop
- For General Purpose Applications
- Epoxy Meets UL 94 V-0 Flammability Rating
- Halogen Free. "Green" Device (Note 1)
- Moisture Sensitivity Level 1
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

# **Maximum Ratings**

- Operating Junction Temperature Range: -55°C to +125°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 250°C/W Junction to Ambient

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
SD101AW	S1	60V	42V	60V
SD101BW	S2	50V	35V	50V
SD101CW	S3	40V	28V	40V

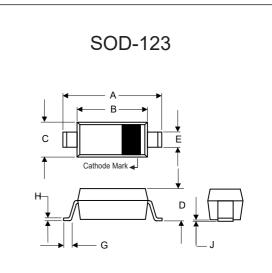
### Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current		I <sub>F(AV)</sub>	15mA	
Peak Forward Surge Current		I <sub>FSM</sub>	2.0A	t=8.3ms
Power Dissipation(Note 2)		$P_d$	400mW	
Maximum Forward Voltage Drop	SD101AW SD101BW SD101CW SD101AW SD101BW SD101CW	V <sub>F</sub>	0.41V 0.40V 0.39V 1.00V 0.95V 0.90V	I <sub>FM</sub> =1mA; I <sub>FM</sub> =15mA;
Maximum Leakage Current	SD101AW SD101BW SD101CW	I <sub>R</sub>	200nA	VR = 50V VR = 40V VR = 30V
Reverse Recovery Time		t <sub>rr</sub>	1ns	$I_F = I_R = 5 \text{mA},$ $I_{rr} = 0.1 \text{x } I_R, R_L = 100 \Omega$
Junction Capacitance	SD101AW SD101BW SD101CW	CJ	2.0pF 2.1pF 2.2pF	Measured at f=1.0MHz, VR=0.0V

Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

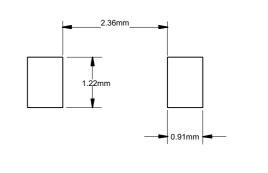
Note: 2. Valid provided that electrodes are kept at ambient Temperature

# 400mW Small Signal Schottky Diode 40 to 60 Volts



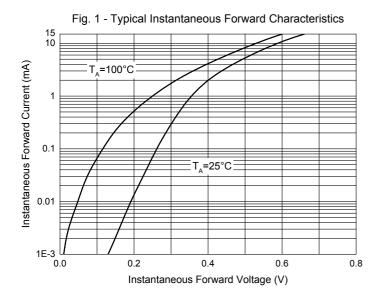
DIMENSIONS						
DIM	INCHES		MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOTE	
Α	0.140	0.152	3.55	3.85		
В	0.100	0.112	2.55	2.85		
С	0.055	0.071	1.40	1.80		
D		0.053		1.35		
E	0.018	0.026	0.45	0.65		
G	0.006		0.15			
Н		0.010		0.25		
J		0.006		0.15		

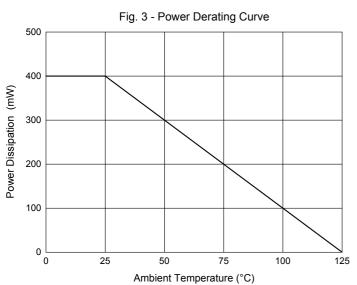
#### Suggested Solder Pad Layout

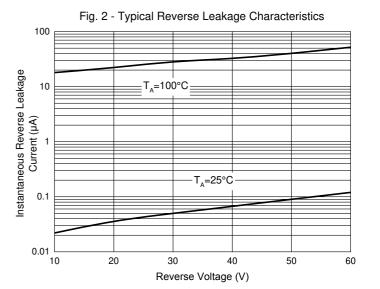




# **Curve Characteristics**







Rev.3-3-12012020 2/3 MCCSEMI.COM



# **Ordering Information**

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

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