

Features

- Halogen Free
- AEC-Q101 Qualified
- Low Forward Voltage Drop
- For General Purpose Applications
- Epoxy Meets UL 94 V-0 Flammability Rating
- 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
SD101AWHE3	S1	60V	42V	60V
SD101BWHE3	S2	50V	35V	50V
SD101CWHE3	S3	40V	28V	40V

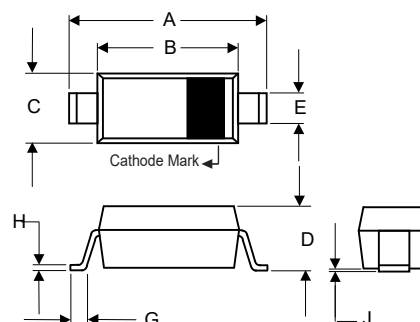
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	15mA	
Peak Forward Surge Current	I_{FSM}	2.0A	$t=8.3ms$
Power Dissipation(Note 1)	P_d	400mW	
Maximum Forward Voltage Drop	V_F	SD101AWHE3 0.41V SD101BWHE3 0.40V SD101CWHE3 0.39V SD101AWHE3 1.00V SD101BWHE3 0.95V SD101CWHE3 0.90V	$I_{FM}=1mA;$ $I_{FM}=15mA;$
Maximum Leakage Current	I_R	200nA	$V_R = 50V$ $V_R = 40V$ $V_R = 30V$
Reverse Recovery Time	t_{rr}	1ns	$I_F=I_R=5mA,$ $I_{rr}=0.1 \times I_R, R_L=100\Omega$
Junction Capacitance	C_J	SD101AWHE3 2.0pF SD101BWHE3 2.1pF SD101CWHE3 2.2pF	Measured at $f=1.0MHz,$ $V_R=0.0V$

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

400mW Small Signal Schottky Diode 40 to 60 Volts

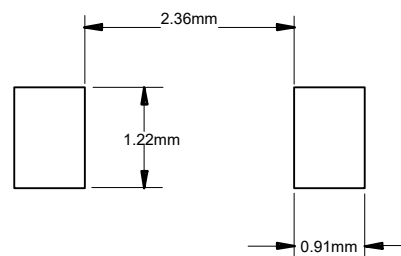
SOD-123



DIMENSIONS

DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.140	0.152	3.55	3.85	
B	0.100	0.112	2.55	2.85	
C	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	----	
H	----	0.010	----	0.25	
J	----	0.006	----	0.15	

Suggested Solder Pad Layout



Curve Characteristics

Fig. 1 - Typical Instantaneous Forward Characteristics

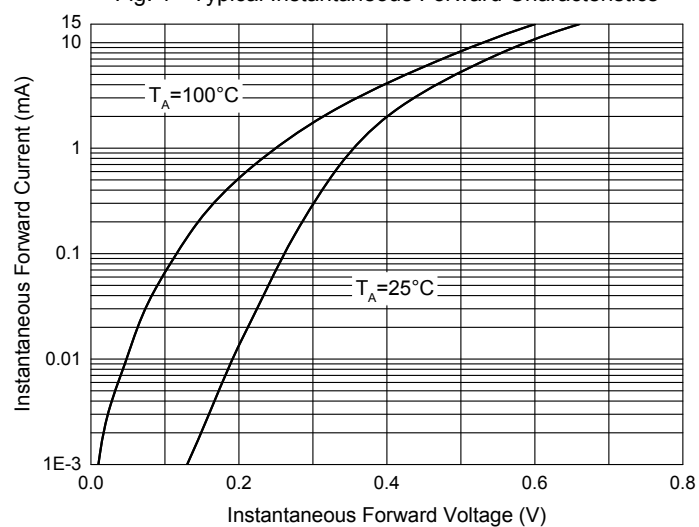


Fig. 2 - Typical Reverse Leakage Characteristics

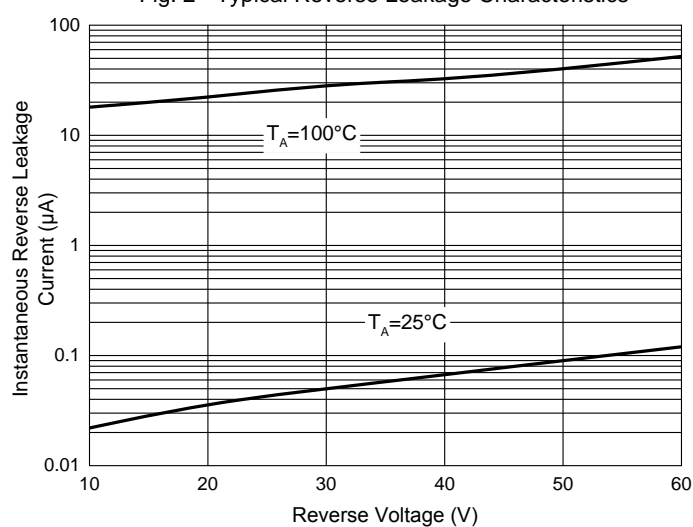
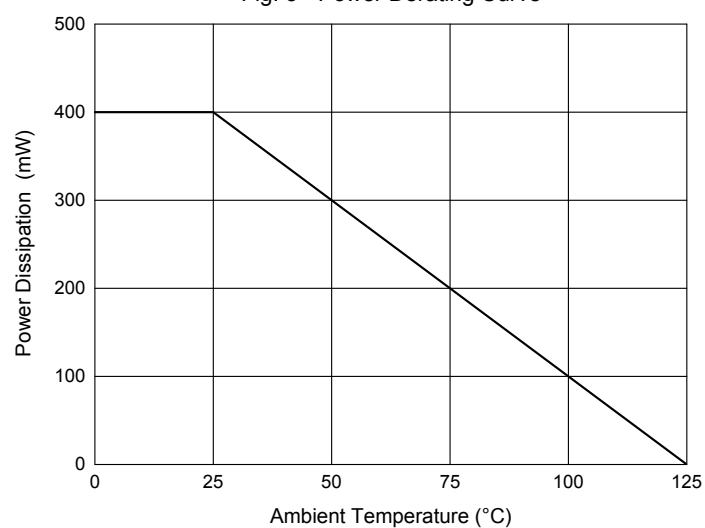


Fig. 3 - Power Derating Curve



Ordering Information

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

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