

Features

- Halogen Free. "Green" Device (Note 1)
- 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(Note 2)

MCC Part Number	Repetitive Peak Reverse Voltage V _{RRM}	RMS Reverse Voltage V _{R(RMS)}	DC Blocking Voltage V _R	
SD101AWHE3	60V	42V	60V	
SD101BWHE3	50V	35V	50V	
SD101CWHE3	40V	28V	40V	

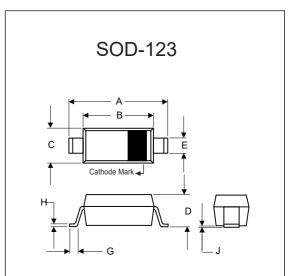
Electrical Characteristics @ 25°C Unless Otherwise Specifie

Average Forward Current	I _{F(AV)}	15mA	(Note 2)
Peak Forward Surge Current	I _{FSM}	2A	t=8.3s
Power Dissipation	P _d	400mW	

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

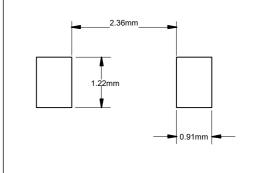
Note: 2.Mounted on FR-4 board with recommended pad layout.

400mW Small Signal Schottky Diode 40 to 60 Volts



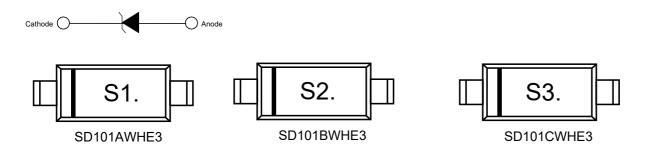
DIMENSIONS						
DIM	INCHES		MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOIE	
Α	0.140	0.152	3.55	3.85		
В	0.100	0.112	2.55	2.85		
С	0.055	0.071	1.40	1.80		
D		0.053		1.35		
Е	0.018	0.026	0.45	0.65		
G	0.006		0.15			
Н		0.010		0.25		
J		0.006		0.15		

Suggested Solder Pad Layout





Internal Structure and Marking Code



Electrical Characteristics @ 25° C Unless OtherwiseSpecified

SD101AWHE3

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Breakdown Voltage	V _{BR}	I _R =100μA	60			V
	.,	I _F =1mA			0.41	V
Forward Voltage	V _F	I _F =15mA			1.00	V
Reverse Current	I _R	V _R =50V			200	nA
Junction Capacitance	CJ	$V_R = 0V$, $f = 1MHz$			4	pF
Reverse Recovery Time	t _{rr}	$I_F = I_R = 10 \text{mA},$ $I_m = 1 \text{mA}, R_L = 100 \Omega$			3	ns

SD101BWHE3

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Breakdown Voltage	V_{BR}	I _R =100μA	50			V
Forward Voltage	.,	I _F =1mA			0.40	V
	V _F	I _F =15mA			0.95	V
Reverse Current	I _R	V _R =40V			200	nA
Junction Capacitance	CJ	$V_R = 0V$, $f = 1MHz$			4	pF
Reverse Recovery Time	t _{rr}	$I_F = I_R = 10 \text{mA},$ $I_m = 1 \text{mA}, R_L = 100 \Omega$			3	ns

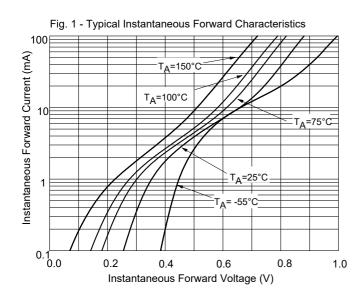
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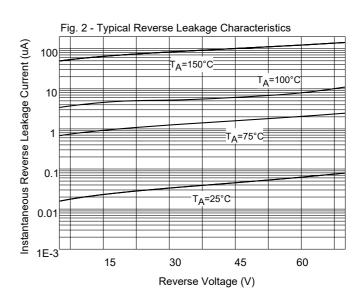


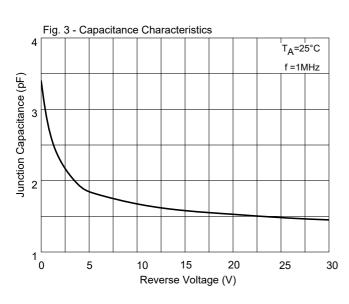
SD101CWHE3

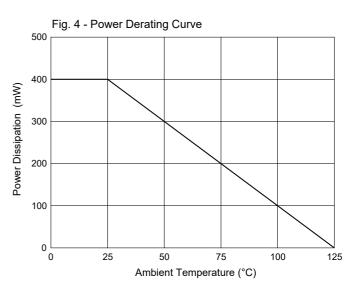
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Breakdown Voltage	V_{BR}	I _R =100μA	40			V
	V _F	I _F =1mA			0.39	V
Forward Voltage		I _F =15mA			0.90	V
Reverse Current	I _R	V _R =30V			200	nA
Junction Capacitance	CJ	$V_R = 0V$, $f = 1MHz$			4	pF
Reverse Recovery Time	t _{rr}	$I_F = I_R = 10 \text{mA},$ $I_{rr} = 1 \text{mA}, R_L = 100 \Omega$			3	ns

Curve Characteristics











Ordering Information

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

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