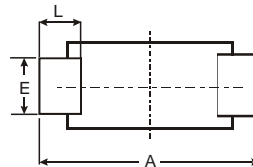
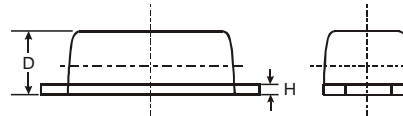
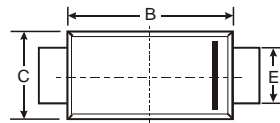


Features

- Low Forward Voltage Drop
- Guard Ring Construction for Transient Protection
- Negligible Reverse Recovery Time
- Very Low Reverse Capacitance

Mechanical Data

- Case: SOD-123FL
plastic body over passivated junction
- Weight: 0.0007 ounce, 0.02 grams
- Marking : SO101AW A01
SO101AW B01
SO101AW C01



SOD-123FL			
Dim	Min	Max	Typ
A	3.50	3.90	3.70
B	2.60	3.00	2.80
C	1.63	1.93	1.78
D	0.93	1.00	0.98
E	0.85	1.25	1.00
H	0.15	0.25	0.20
L	0.55	0.75	0.65
All Dimensions in mm			



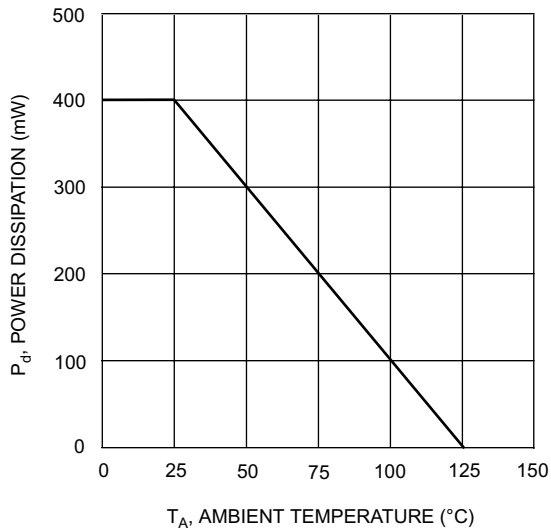
Maximum Ratings @ T_A = 25°C unless otherwise specified

Characteristic	Symbol	SD101AW	SD101BW	SD101CW	Unit
Peak Repetitive Reverse Voltage	V _{RRM}	60	50	40	V
Working Peak Reverse Voltage	V _{RWM}				
DC Blocking Voltage	V _R				
RMS Reverse Voltage	V _{R(RMS)}	42	35	28	V
Forward Continuous Current (Note 1)	I _{FM}		15		mA
Non-Repetitive Peak Forward Surge Current @ t ≤ 1.0s @ t = 10μs	I _{FSM}		50 2.0		mA A
Power Dissipation (Note 1)	P _d		400		mW
Thermal Resistance, Junction to Ambient Air (Note 1)	R _{θJA}		300		°C/W
Operating and Storage Temperature Range	T _j , T _{STG}		-65 to +125		°C

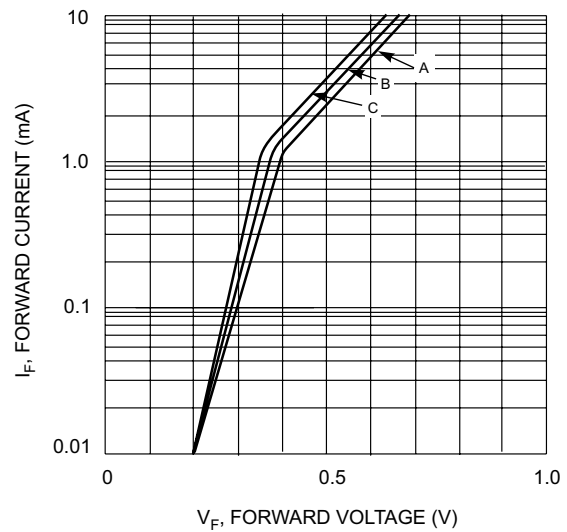
Electrical Characteristics @ T_A = 25°C unless otherwise specified

Characteristic	Symbol	Min	Max	Unit	Test Condition
Reverse Breakdown Voltage (Note 2)	SD101AW SD101BW SD101CW V _{(BR)R}	60 50 40	—	V	I _R = 10μA I _R = 10μA I _R = 10μA
Forward Voltage Drop (Note 2)	SD101AW SD101BW SD101CW SD101AW SD101BW SD101CW V _{FM}	—	0.41 0.40 0.39 1.00 0.95 0.90	V	I _F = 1.0mA I _F = 1.0mA I _F = 1.0mA I _F = 15mA I _F = 15mA I _F = 15mA
Peak Reverse Current (Note 2)	SD101AW SD101BW SD101CW I _{RM}	—	200	nA	V _R = 50V V _R = 40V V _R = 30V
Total Capacitance	SD101AW SD101BW SD101CW C _T	—	2.0 2.1 2.2	pF	V _R = 0V, f = 1.0MHz
Reverse Recovery Time	t _{rr}	—			I _F = I _R = 5.0mA, I _{rr} = 0.1 x I _R , R _L = 100Ω

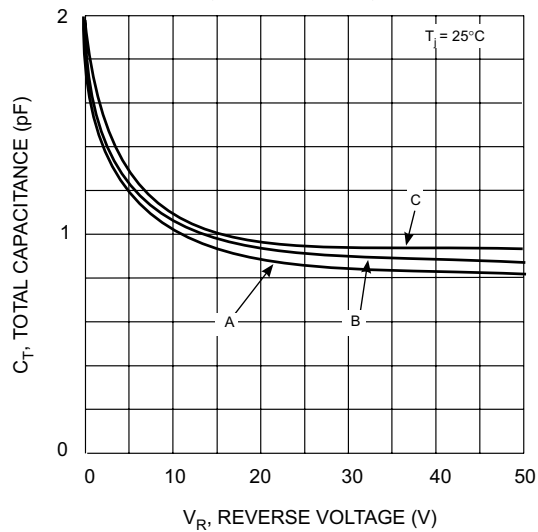
- Notes:
1. Part mounted on FR-4 board with recommended pad layout
 2. Short duration test pulse used to minimize self-heating effect.



T_A , AMBIENT TEMPERATURE (°C)
Fig. 1 Power Derating Curve



V_F , FORWARD VOLTAGE (V)
Fig. 2 Typical Forward Characteristic



V_R , REVERSE VOLTAGE (V)
Fig. 3 Typ. Total Capacitance vs Reverse Voltage