

SD101AWS/BWS/CWS

SURFACE MOUNT SCHOTTKY BARRIER

VOLTAGE 40 to 60 Volt **CURRENT** 0.015 Ampere

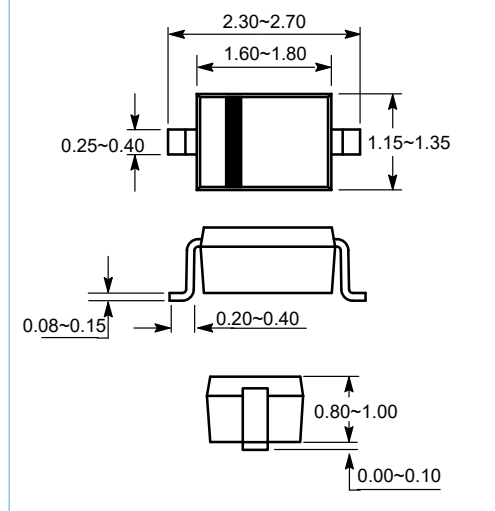
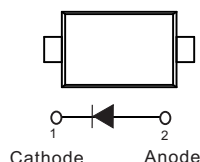
SOD-323 Unit:mm

FEATURES

- Low Forward Voltage Drop
- Low Reverse Capacitance
- Lead free in compliance with EU RoHS
- Marking code: SD101AWS: S1 ,SD101BWS: S2 , SD101CWS: S3

MECHANICAL DATA

- Case Material: Molded Plastic.
- UL Flammability Classification Rating 94V-0



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS($T_A = 25^{\circ}\text{C}$ unless otherwise noted)

Parameter	Symbol	SD101AWS	SD101BWS	SD101CWS	Unit
Peak Repetitive Peak 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	I_{FM}	15			mA
Non-repetitive Peak Forward Surge Current @ $t=8.3\text{ms}$	I_{FSM}	2.0			A
Power Dissipation	P_d	400			mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	250			$^{\circ}\text{C/W}$
Junction Temperature	T_j	125			$^{\circ}\text{C}$
Storage Temperature	T_{STG}	-55~+150			$^{\circ}\text{C}$

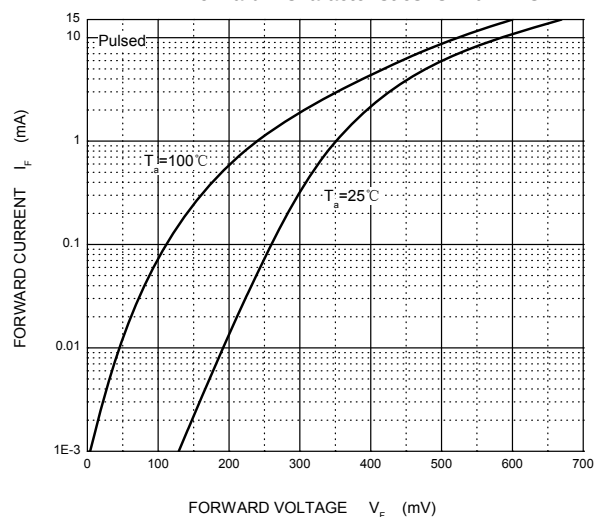
ELECTRICAL CHARACTERISTICS($T_A = 25^{\circ}\text{C}$ unless otherwise noted)

Characteristic	Symbol	Conditions	Min	Typ	Max	Unit
Reverse Leakage	I_R	($V_R = 50\text{ V}$) ($V_R = 40\text{ V}$) ($V_R = 30\text{ V}$)			0.2	μA
Forward Voltage	V_F	($I_F = 1\text{ mA}$) ($I_F = 15\text{ mA}$)			0.41 0.40 0.39 1.00 0.95 0.90	V
Total Capacitance	C_T	($V_R = 0\text{ V}$, $f = 1.0\text{ MHz}$)			2.0 2.1 2.2	pF
Reverse Recovery Time	t_{rr}	$I_F = I_R = 5\text{ mA}$, $I_{rr} = 0.1 \times I_R$, $R_L = 100\ \Omega$			1.0	ns

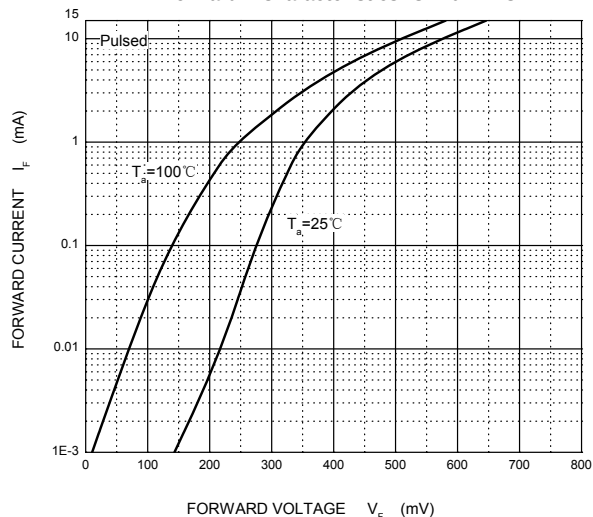
SD101AWS/BWS/CWS

Typical Characteristics

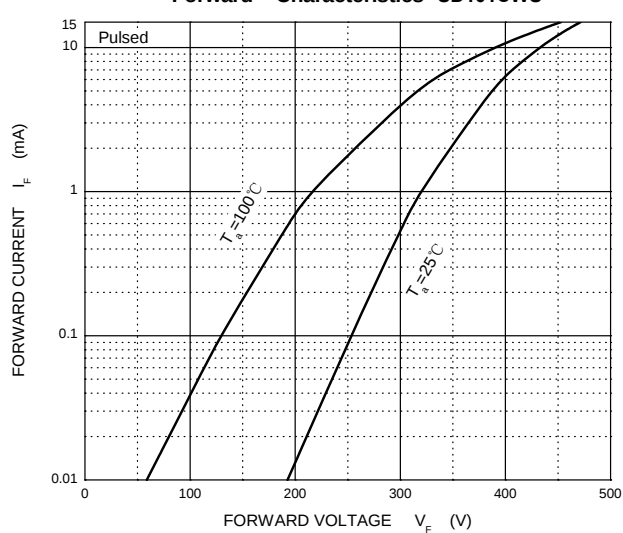
Forward Characteristics--SD101AWS



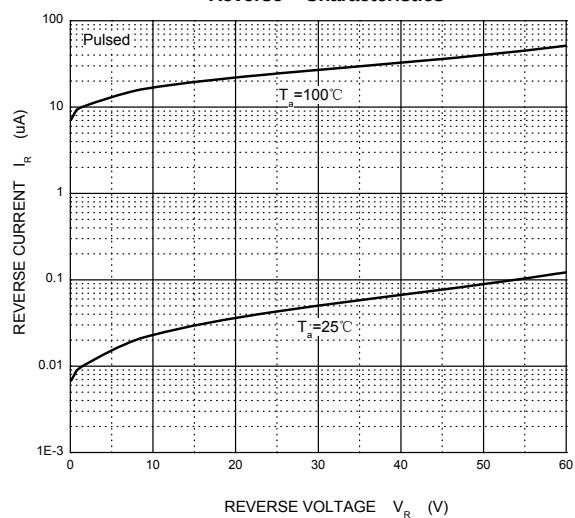
Forward Characteristics--SD101BWS



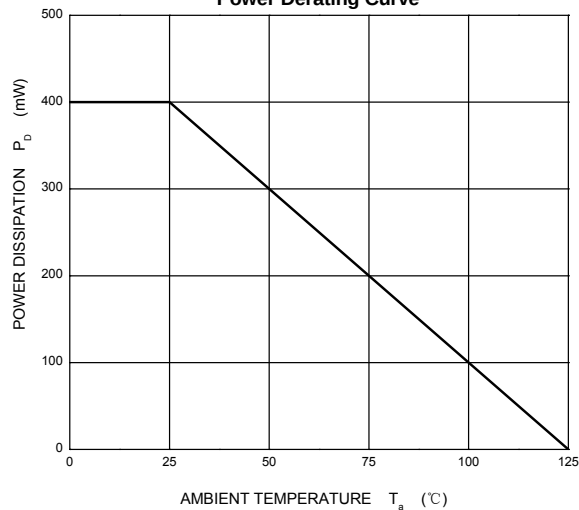
Forward Characteristics--SD101CWS



Reverse Characteristics



Power Derating Curve

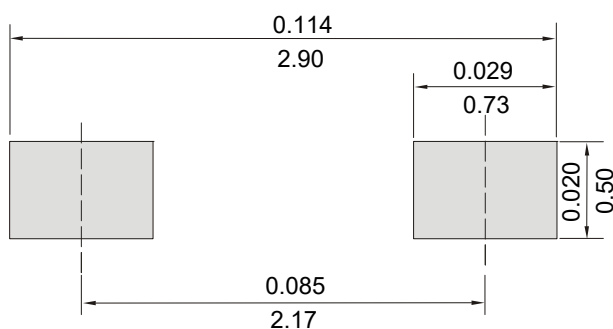


SD101AWS/BWS/CWS

MOUNTING PAD LAYOUT

SOD-323

Unit:Inch(mm)



ORDER INFORMATION

- Packing information

Part Number	Case	Reel Size	QUANTITY
SD101AWS/BWS/CWS	SOD-323	7 Inch	3000