



SD101AWS~SD101CWS

SURFACE MOUNT SCHOTTKY BARRIER

VOLTAGE 40 to 60 Volts **CURRENT** 0.35 Amperes

SOD-323

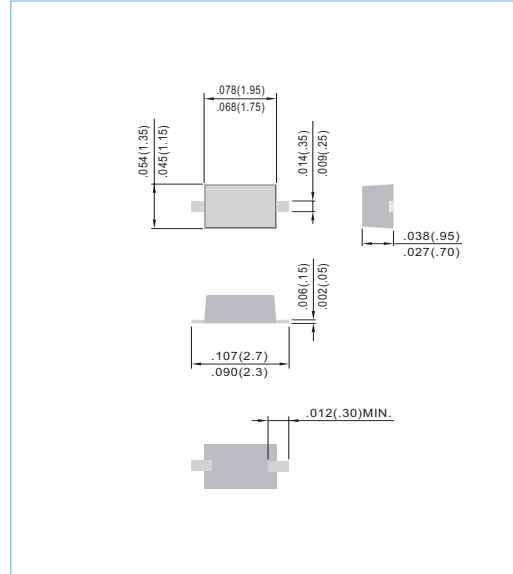
Unit: inch (mm)

FEATURES

- Very Low VF : 0.41V (Typ) at $I_F=1\text{mA}$
- Low Capacitance : 2pF (Typ) at $V_R=1\text{V}$
- Extremely Fast Switching Speed
- In compliance with EU RoHS 2002/95/EC directives

MECHANICAL DATA

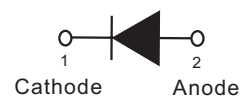
- Case: SOD-323, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.008 gram
- Polarity : Color band cathode



ABSOLUTE RATINGS AND THERMAL CHARACTERISTICS

PARAMETER	Symbol	Value			Units
		SD101AWS	SD101BWS	SD101CWS	
Marking		S2	S3	S4	
Maximum DC and Peak Reverse Voltage	V_R, V_{RRM}	60	50	40	V
Maximum Forward Surge Current $t=0.01\text{ms}$	I_{FSM}	2			A
Power Dissipation (Notes 1)	P_{TOT}	400			mW
Thermal Resistance, Junction to Ambient (Notes 1)	$R_{\theta JA}$	250			$^{\circ}\text{C}/\text{W}$
Junction Temperature	T_J	-55 to 125			$^{\circ}\text{C}$
Storage Temperature	T_{STG}	-55 to 125			$^{\circ}\text{C}$

Note : 1.FR-4 Board = 70 x 60 x 1mm.





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ELECTRICAL CHARACTERISTICS (T_J=25°C, unless otherwise noted)

PARAMETER	Symbol	Test Condition	MIN.	TYP.	MAX.	Units	
Reverse Breakdown Voltage	V _(BR)	SD101AWS	60			V	
		SD101BWS	50				
		SD101CWS	40				
Reverse Leakage Current	I _R	V _R =50V	-	-	0.2	μA	
		V _R =40V	-	-	0.2		
		V _R =30V	-	-	0.2		
Forward Voltage	V _F	I _F =1mA	SD101AWS	-	-	0.41	V
			SD101BWS	-	-	0.40	
			SD101CWS	-	-	0.39	
		I _F =15mA	SD101AWS	-	-	1.00	V
SD101BWS	-		-	0.95			
Total Capacitance	C _J	V _R =0V, f=1.0MHz	SD101AWS	-	-	2.0	pF
			SD101BWS	-	-	2.1	
			SD101CWS	-	-	2.2	
Reverse Recovery Time	t _{rr}	I _F =I _R =5mA, I _{rr} =0.1I _R	-	-	1.0	ns	

ELECTRICAL CHARACTERISTICS CURVES

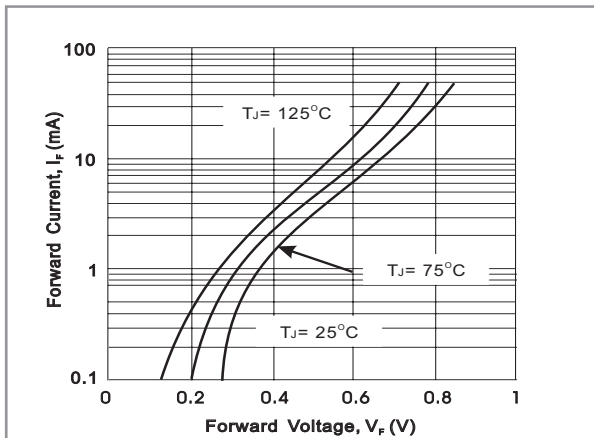


Fig.1- TYPICAL FORWARD VOLTAGE

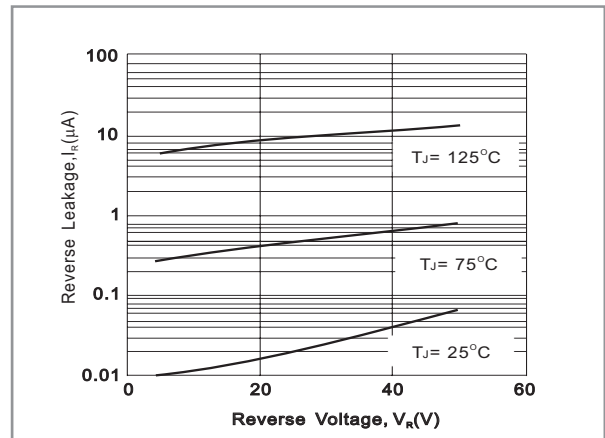


Fig.2- TYPICAL REVERSE CURRENT

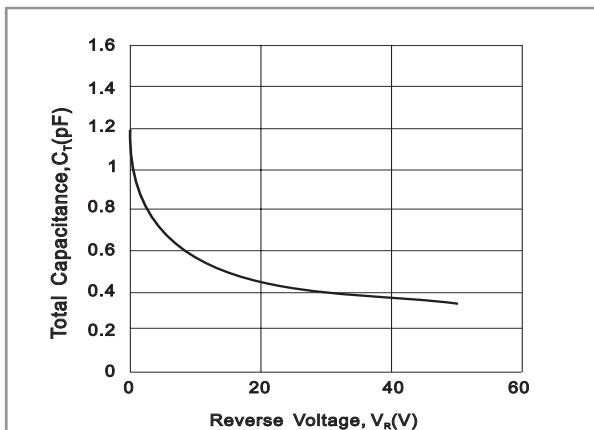
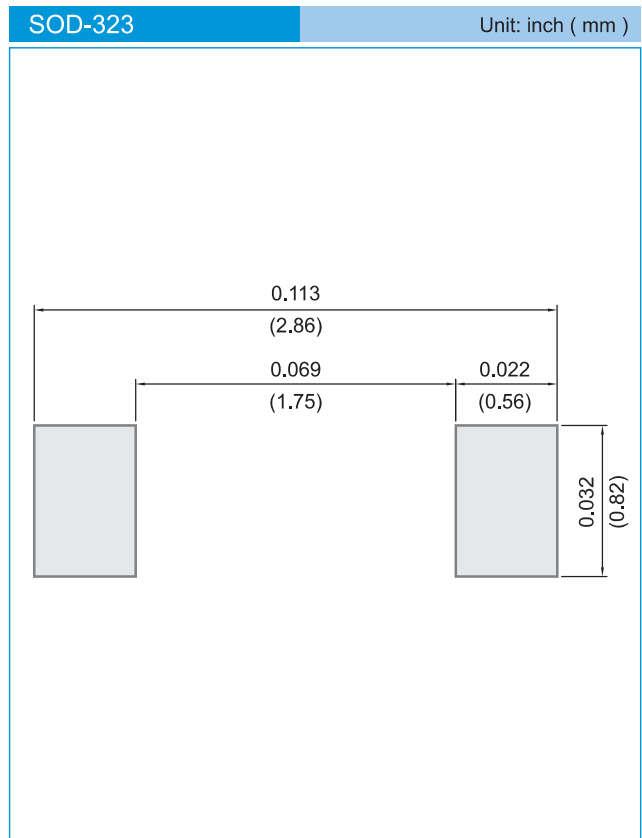


Fig.3- TYPICAL TOTAL CAPACITANCE



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MOUNTING PAD LAYOUT



ORDER INFORMATION

- Packing information
T/R - 12K per 13" plastic Reel
T/R - 5K per 7" plastic Reel

LEGAL STATEMENT

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