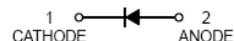


Schottky Barrier Diode

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SOD-323

Features:

- Low Forward Voltage Drop
- Guard Ring Construction for Transient Protection
- Negligible Reverse Recovery Time
- Low Reverse Capacitance
- Ultra-Small Surface Mount Package

Applications:

Schottky barrier switching

Maximum Rating @ T_A = 25°C unless otherwise specified

Parameter	Symbol	SD101AWS-7-F	Unit
Peak repetitive peak reverse voltage	V_{RRM}	60	V
Working peak	V_{RWM}		
DC reverse voltage	V_R		
RMS reverse voltage	$V_{R(RMS)}$	42	V
Forward continuous current	I_F	15	mA
Repetitive peak forward current @ t < 1.0s	I_{FRM}	50	mA
@ t = 10μs		2	A
Power dissipation	P_D	200	mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	625	°C/W
Storage temperature	T_{stg}	-65 to +125	°C

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Electrical Characteristics @ $T_A = 25^\circ\text{C}$ unless otherwise specified

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Reverse breakdown voltage	$V_{(BR)R}$	60			V	$I_R = 10\mu\text{A}$
Forward voltage	V_F			0.41 1	V	$I_F = 1\text{mA}$ $I_F = 15\text{mA}$
Reverse current	I_{RM}			0.2	μA	$V_R = 50\text{V}$
Capacitance between terminals	C_T			2	pF	$V_R = 0, f = 1\text{MHz}$
Reverse recovery time	t_{rr}			1	ns	$I_R = I_F = 5\text{mA}$ $I_{rr} = 0.1 * I_R, R_L = 100\Omega$

Typical Characteristics @ $T_A = 25^\circ\text{C}$ unless otherwise specified

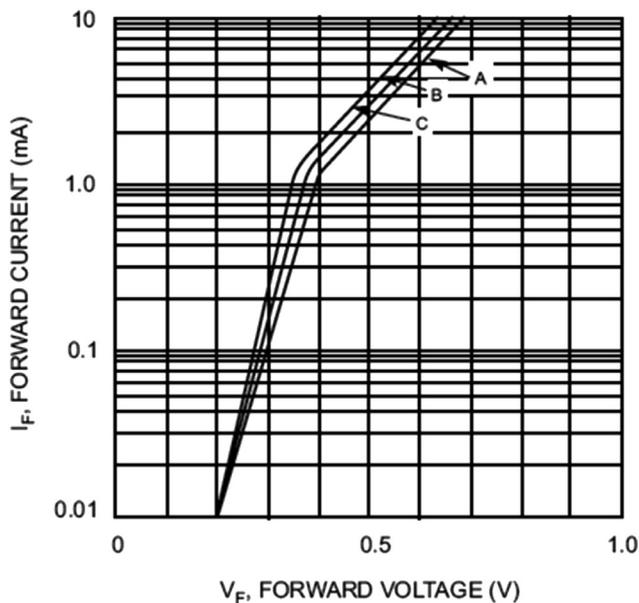


Fig. 1 Typical Forward Characteristic Variations for Primary Conduction

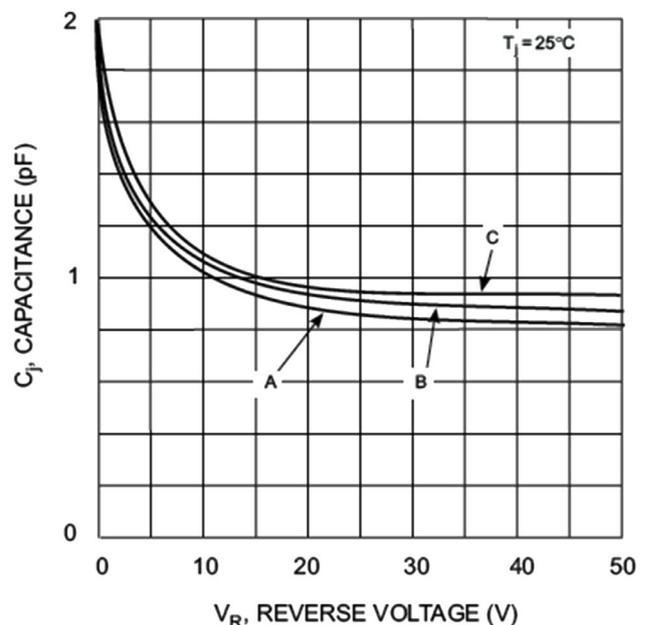


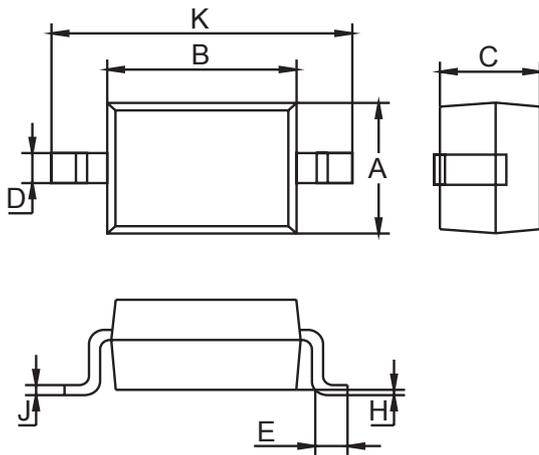
Fig. 2 Typ. Junction Capacitance vs Reverse Voltage

Schottky Barrier Diode

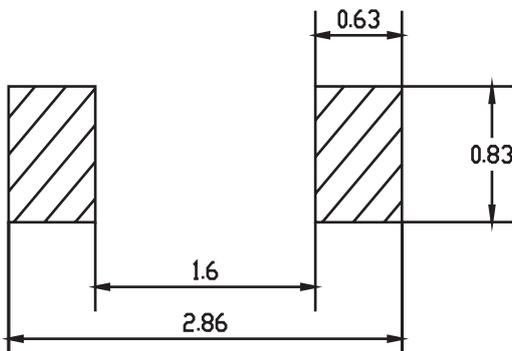
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Package Outline

Plastic surface mounted package



SOD-323		
Dim	MinM	ax
A	1.275	1.325
B1	.675 1	.725
C0	.9 Typical	
D	0.25 0	.35
E0	.27	0.37
H	0.02 0	.1
J0	.1 Typical	
K	2.62	.7
All Dimensions in mm		



Dimensions : Millimetres

Package Information

Device	Package	Shipping
SD101AWS-7-F	SOD-323	3,000/Tape & Reel

Part Number Table

Description	Part Number
Schottky Barrier Diode	SD101AWS-7-F

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