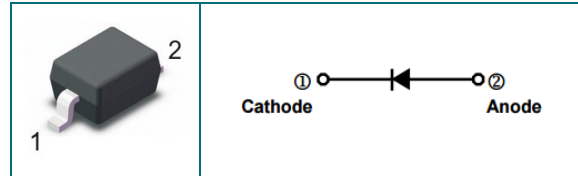


Schottky Barrier Diode

1. Features

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



2. Applications

- Schottky barrier switching.

3. Ordering Information

Type Number	Package Type	Packing	Notes
SD103AWS	SOD-323	Tape & Reel	
SD103BWS	SOD-323	Tape & Reel	
SD103CWS	SOD-323	Tape & Reel	

Note: If the physical information is inconsistent with the ordering information, please refer to the actual product.

4. Maximum Rating

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

Parameter	Symbol	SO103AWS	SO103BWS	SO103CWS	Unit
Peak Repetitive Peak reverse voltage	V_{RR}				
Working Peak	V_{RWM}	40	30	20	V
DC Reverse Voltage	V_R				
RMS Reverse Voltage	$V_{R(RMS)}$	28	21	14	V
Forward Continuous Current	I_F	350			mA
Repetitive Peak Forward Current @ $t \leq 1.0\text{s}$	I_{FRM}	1.5			A
Power Dissipation	P_d	400			mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	300			$^{\circ}\text{C}/\text{W}$
Storage temperature	T_{stg}	-65~+125			$^{\circ}\text{C}$

5. Electrical Characteristics

T_A=25°C unless otherwise specified

Parameter		Symbol	Min.	Typ.	Max.	Unit	Conditions
Reverse Breakdown Voltage	SO103AWS	V _{(BR)R}	40			V	I _R =10μA
	SO103BWS		30				I _R =10μA
	SO103CWS		20				I _R =10μA
Forward voltage		V _F			0.37 0.60	V	I _F =20Ma I _F =200mA
Reverse current	SO103AWS	I _{RM}			5.0	μA	V _R =30V
	SO103BWS						V _R =20V
	SO103CWS						V _R =10V
Capacitance between terminals		C _T		50		pF	V _R =0, f=1MHz
Reverse Recovery Time		t _{rr}		10		ns	I _R =I _F =200mA I _{rr} =0.1*I _R , R _L =1 00Q

6. Typical Characteristics

T_A=25°C unless otherwise specified

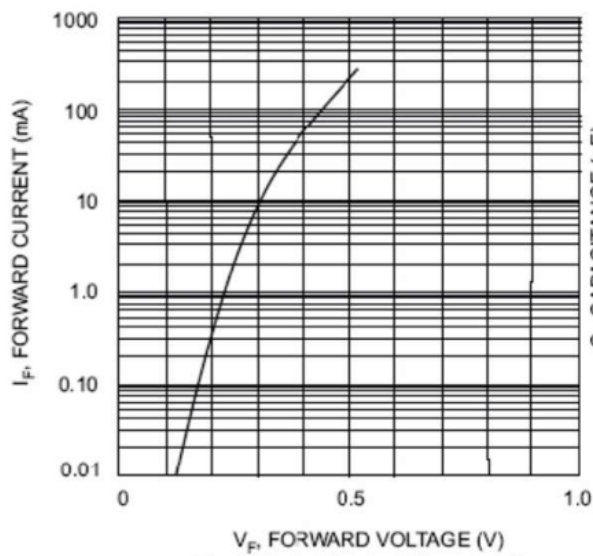


Fig. 1 Typical Forward Characteristics

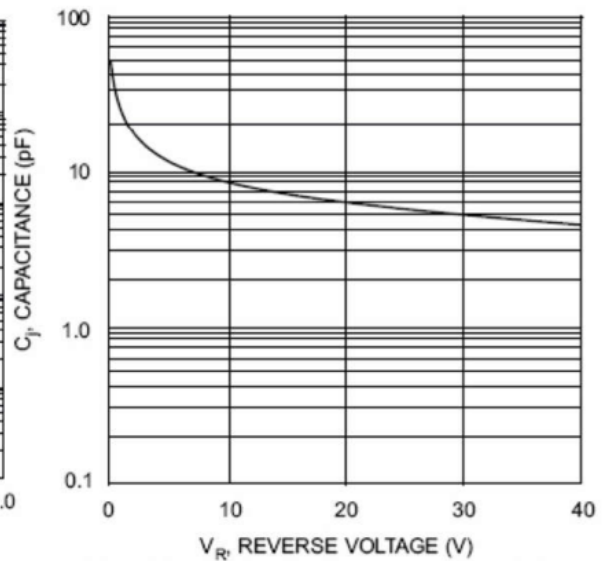
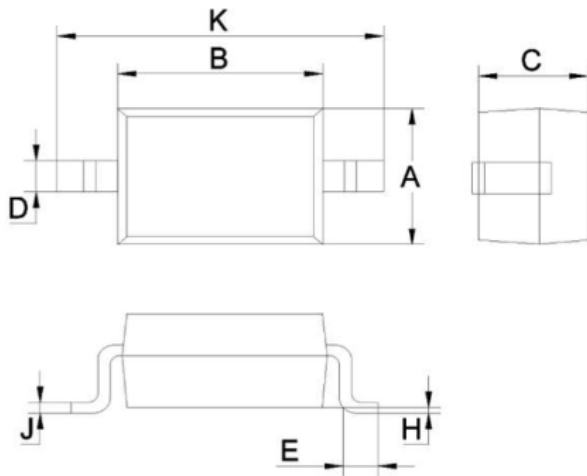


Fig. 2 Typ. Junction Capacitance vs Reverse Voltage

7. Package Outlines



SOD-323		
Dim	Min	Max
A	1.275	1.325
B	1.675	1.725
C	0.9 Typical	
D	0.25	0.35
E	0.27	0.37
H	0.02	0.1
J	0.1 Typical	
K	2.6	2.7
All Dimensions in mm		

8. Disclaimers

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