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

SD101AWS	**S1**
SD101BWS	**S2**
SD101CWS	**S3**

g @ Ta=25°C unless otherwise specified

Parameter	Symbol	SD101AWS	SD101BWS	SD101CWS	Unit
Peak Repetitive reverse voltage Working Peak reverse voltage DC Reverse Voltage	V_{RRM} V_{RWM} V_R	60	50	40	V
RMS Reverse Voltage	$V_{R(RMS)}$	42	35	28	V
Forward Continuous Current	I_F	15			mA
Repetitive Peak Forward Current @t<1.0s @t=10 s	I_{FRM}	50 2.0			mA A
Power Dissipation	P_d	200			mW
Thermal Resistance Junction to Ambient	R_{jA}	625			/W
Storage temperature	T_{stg}	-65 to+125			

Electrical Characteristics @ Ta=25°C unless otherwise specified

Parameter		Symbol	Min.	Typ.	Max.	Unit	Conditions
Reverse Breakdown Voltage	SD101AWS	$V_{(BR)R}$	60			V	I_R=10 A
	SD101BWS		50				I_R=10 A
	SD101CWS		40				I_R=10 A
Forward voltage	SD101AWS	V_F			0.41	V	I_F=1.0mA
	SD101BWS				0.40		I_F=1.0mA
	SD101CWS				0.39		I_F=1.0mA
	SD101AWS				1.00		I_F=15mA
	SD101BWS				0.95		I_F=15mA
	SD101CWS				0.90		I_F=15mA
Reverse current	SD101AWS	I_{RM}			0.2	A	V_R=50V
	SD101BWS						V_R=40V
	SD101CWS						V_R=30V
Capacitance between terminals	SD101AWS	C_T			2.0	pF	V_R=0,f=1MHz
	SD101BWS				2.1		
	SD101CWS				2.2		
Reverse Recovery Time		t_{rr}			1.0	ns	I_R=I_F=5mA
							I_{rr}=0.1*I_R,R_L=100

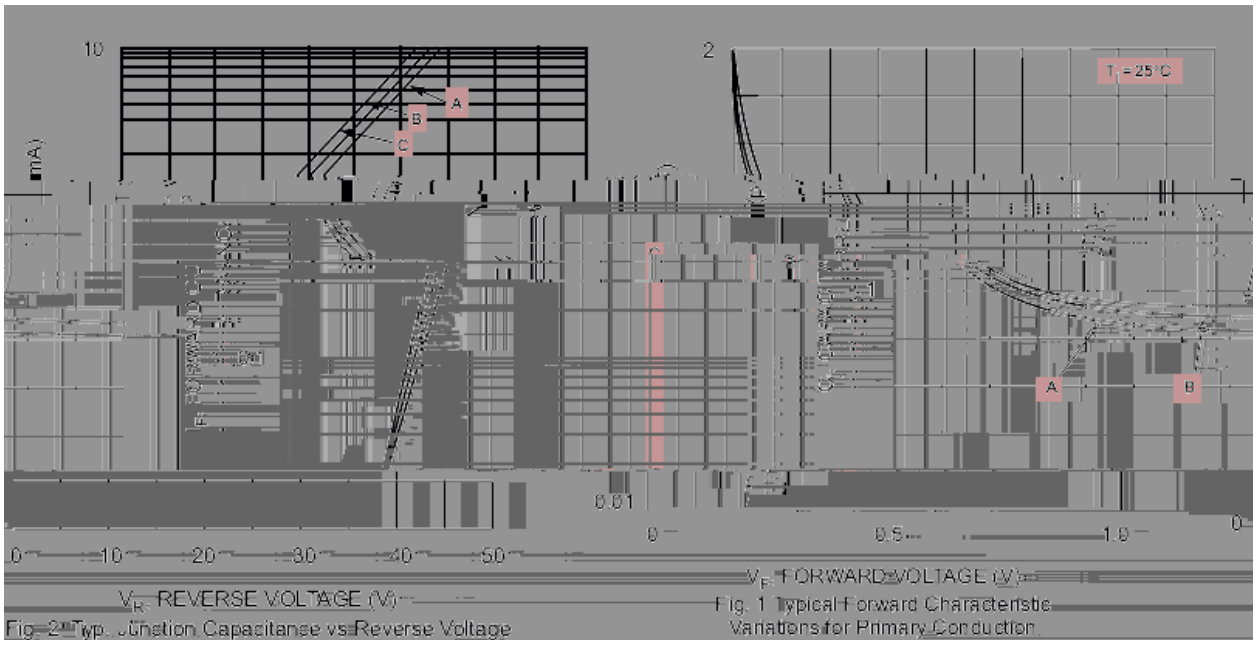

Fig. 2 Typ. Junction Capacitance vs Reverse Voltage

Fig. 1 Typical Forward Characteristic Variations for Primary Conduction

Ordering information

Package	Packing Description	Packing Quantity
SOD-323	Tape/Reel,7”reel	3000PCS/Reel 120000PCS/Carton

Package Dimensions

SOD-323

Dim.	Millimeter(mm)		mil	
	Min.	Max.	Min.	Max.
A	0.8	1.1	32	43
C	0.08	0.15	3.1	5.9
D	1.2	1.4	47	55
E	1.4	1.8	63	70
E1	2.55	2.75	100	108