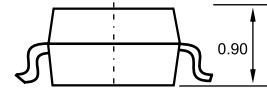
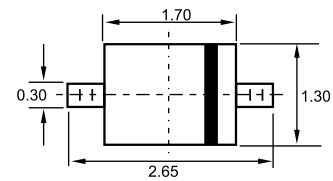




### SOD-323



Dimensions in inches and (millimeters)

## Features

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

## Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

### Maximum Ratings

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

### Electrical Ratings

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

## Typical Characteristics

