SCHOTTKY DIODE

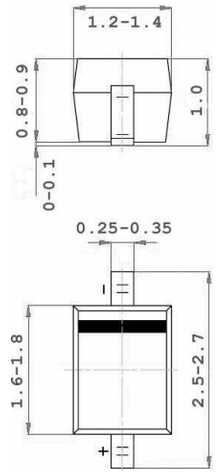
VOLTAGE RANGE: 60/50/40 VOLTS
CURRENT: 15mA

FEATURES

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

MARKING: SD101AWS: S1
SD101BWS: S2
SD101CWS: S3

SOD-323





UNIT:mm

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25℃ ambient temperature unless otherwise specified.

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Parameters	Symbols	SD101AWS	SD101BWS	SD101CWS	UNITS
Peak Repetitive Peak Reverse Voltage Working Peak DC Blocking 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_{FM}	15			mA
Repetitive Peak Forward Current @ t < 1.0s @ t =10μs	I_{FRM}	50 2.0			mA A
Power Dissipation	P_d	200			mW
Thermal Resistance Junction to Ambient Air	$R_{\theta JA}$	625			℃/W
Storage Temperature	T_{STG}	-65~+125			℃

ELECTRICAL RATINGS

Parameters		Symbols	Test conditions	Min.	Typ.	Max.	UNITS
Reverse Breakdown Voltage	SD101AWS SD101BWS SD101CWS	$V_{(BR)R}$	I_R =10μA I_R =10μA I_R =10μA	60 50 40			V
Forward Voltage	SD101AWS SD101BWS SD101CWS SD101AWS SD101BWS SD101CWS	V_F	I_F=1.0mA I_F=1.0mA I_F=1.0mA I_F=15mA I_F=15mA I_F=15mA			0.41 0.40 0.39 1.00 0.95 0.90	V
Reverse Current	SD101AWS SD101BWS SD101CWS	I_{RM}	V_R=50V V_R=40V V_R=30V			0.2	μA
Capacitance between Terminals	SD101AWS SD101BWS SD101CWS	C_T	V_R =0V, f=1.0MHz			2.0 2.1 2.2	pF
Reverse Recovery Time		t_{rr}	I_F = I_R = 5mA, I_{rr}=0.1*I_R, R_L=100Ω			1.0	ns