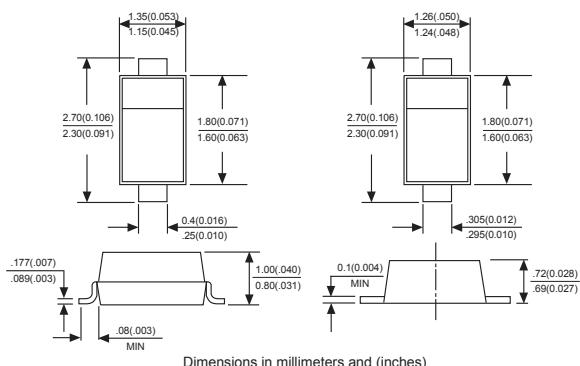




# SD101AWS-SD101CWS

## SCHOTTKY DIODES

### SOD-323



Dimensions in millimeters and (inches)

### FEATURES

- Low forward voltage drop
- Guard ring construction for transient protection
- Negligible reverse recovery time

### MECHANICAL DATA

**Case:** Molded plastic body

**Terminals:** Plated leads solderable per MIL-STD-750, Method 2026

**Polarity:** Polarity symbols marked on case

Marking: SD101AWS:S1, SD101BWS:S2, SD101CWS:S3

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Maximum ratings and electrical characteristics, Single diode @ $T_A=25^\circ\text{C}$

PARAMETER	SYMBOLS	SD101AWS	SD101BWS	SD101CWS	UNITS
Peak repetitive peak reverse voltage	$V_{RRM}$				
Working peak reverse voltage	$V_{RMS}$	60	50	40	VOLTS
DC Blocking voltage	$V_{DC}$				
RMS Reverse voltage	$V_{R(RMS)}$	42	35	28	V
Forward continuous current	$I_{FM}$		15		mA
Repetitive peak forward current @ $t<1.0\text{s}$ @ $t=10\mu\text{s}$	$I_{FRM}$		50	2.0	mA
Power dissipation	$P_d$		200		mW
Thermal resistance junction to ambient	$R_{eJA}$		300		°C/W
Storage temperature	$T_{STG}$		-65 to +125		°C

Electrical ratings @ $T_A=25^\circ\text{C}$

PARAMETER	SYMBOLS	Min.	Typ.	Max.	Unit	Conditions
Reverse breakdown voltage	SD101AWS SD101BWS SD101CWS	$V_{(BR)R}$	60 50 40		V	$I_R=10\mu\text{A}$ $I_R=10\mu\text{A}$ $I_R=10\mu\text{A}$
Forward voltage	SD101AWS SD101BWS SD101CWS SD101AWS SD101BWS SD101CWS	$V_F$		0.41 0.40 0.39 1.00 0.95 0.90	V	$I_F=1.0\text{mA}$ $I_F=1.0\text{mA}$ $I_F=1.0\text{mA}$ $I_F=15\text{mA}$ $I_F=15\text{mA}$ $I_F=15\text{mA}$
Reverse current	SD101AWS SD101BWS SD101CWS	$I_{RM}$		0.2	uA	$V_R=50\text{V}$ $V_R=40\text{V}$ $V_R=30\text{V}$
Capacitance between terminals	SD101AWS SD101BWS SD101CWS	$C_T$		2.0 2.1 2.2	pF	$V_R=0\text{V}, f=1.0\text{MHz}$
Reverse recovery time		$t_{rr}$		1.0	ns	$I_F=I_R=5\text{mA}$ $I_{rr}=0.1XI_R, R_L=100\Omega$

## RATINGS AND CHARACTERISTIC CURVES SD101AWS-SD101CWS

FIG. 1- POWER DERATING CURVE

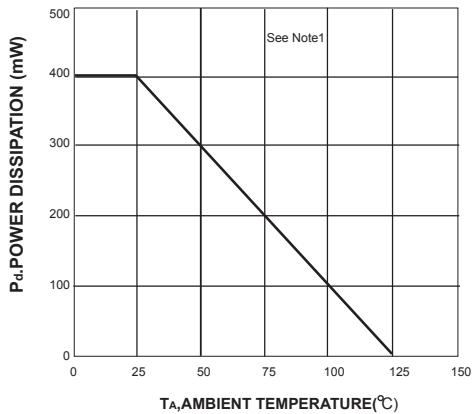


FIG. 2-TYPICAL FORWARD CHARACTERISTIC

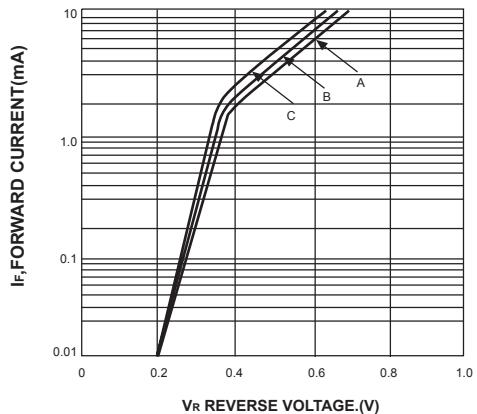


FIG.3- TYPICAL TOTAL CAPACITANCE VS REVERSE VOLTAGE

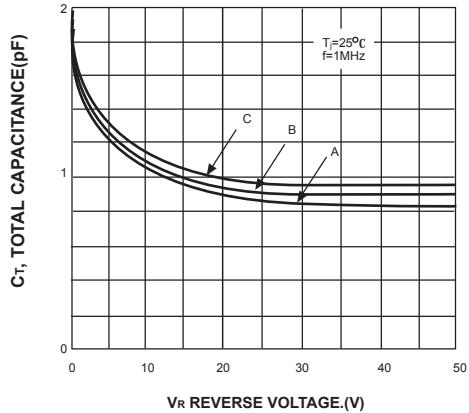


FIG. 4- TYPICAL REVERSE CHARACTERISTICS

