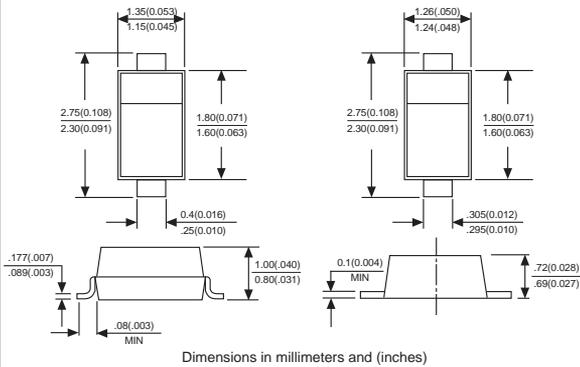




# SD101AWS-SD101CWS

## SCHOTTKY DIODES

### SOD-323



### 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<sub>A</sub>=25°C

PARAMETER	SYMBOLS	SD101AWS	SD101BWS	SD101CWS	UNITS
Peak repetitive peak reverse voltage	V <sub>RRM</sub>				VOLTS
Working peak reverse voltage	V <sub>RMS</sub>	60	50	40	
DC Blocking voltage	V <sub>DC</sub>				
RMS Reverse voltage	V <sub>R(RMS)</sub>	42	35	28	V
Forward continuous current	I <sub>FM</sub>		15		mA
Repetitive peak forward current @t<1.0s	I <sub>FRM</sub>		50		mA
@t=10us			2.0		A
Power dissipation	P <sub>d</sub>		200		mW
Thermal resistance junction to ambient	R <sub>θJA</sub>		300		°C/W
Storage temperature	T <sub>STG</sub>		-65 to +125		°C

Electrical ratings @T<sub>A</sub>=25°C

PARAMETER	SYMBOLS	Min.	Typ.	Max.	Unit	Conditions
Reverse breakdown voltage	SD101AWS SD101BWS SD101CWS	V <sub>(BR)R</sub>	60 50 40		V	I <sub>R</sub> =10uA I <sub>R</sub> =10uA I <sub>R</sub> =10uA
Forward voltage	SD101AWS SD101BWS SD101CWS	V <sub>F</sub>		0.41 0.40 0.39	V	I <sub>F</sub> =1.0mA I <sub>F</sub> =1.0mA I <sub>F</sub> =1.0mA
	SD101AWS SD101BWS SD101CWS			1.00 0.95 0.90		I <sub>F</sub> =15mA I <sub>F</sub> =15mA I <sub>F</sub> =15mA
Reverse current	SD101AWS SD101BWS SD101CWS	I <sub>RM</sub>		0.2	uA	V <sub>R</sub> =50V V <sub>R</sub> =40V V <sub>R</sub> =30V
Capacitance between terminals	SD101AWS SD101BWS SD101CWS	C <sub>T</sub>		2.0 2.1 2.2	pF	V <sub>R</sub> =0V, f=1.0MHz
Reverse recovery time		t <sub>rr</sub>		1.0	ns	I <sub>F</sub> =I <sub>R</sub> =5mA I <sub>rr</sub> =0.1X I <sub>R</sub> , R <sub>L</sub> =100Ω

# RATINGS AND CHARACTERISTIC CURVES SD101AWS-SD101CWS

FIG. 1- POWER DERATING CURVE

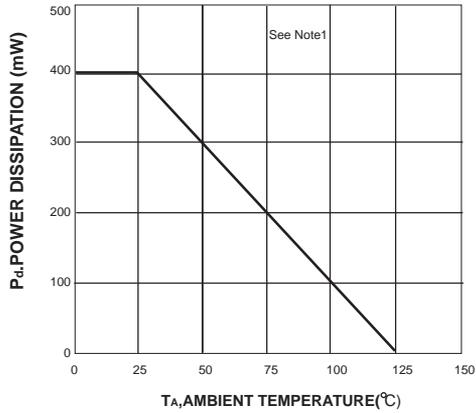


FIG. 2-TYPICAL FORWARD CHARACTERISTIC

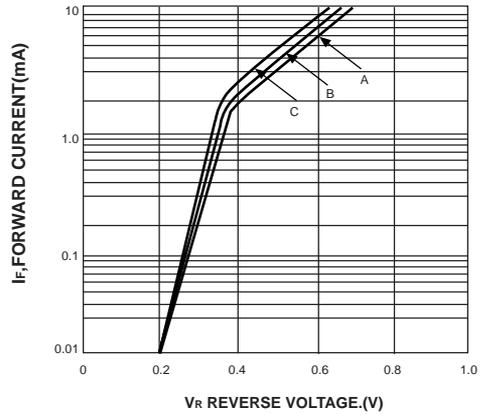


FIG.3- TYPICAL TOTAL CAPACITANCE VS REVERSE VOLTAGE

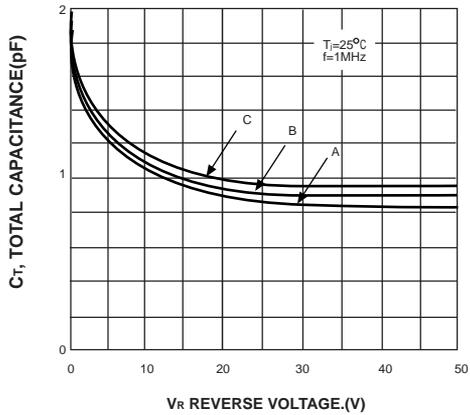


FIG. 4- TYPICAL REVERSE CHARACTERISTICS

