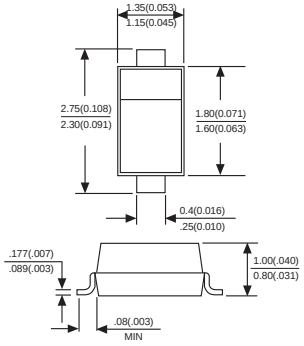
SD101AWS-SD101CWS

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℃

PARAMETER	SYMBOLS	SD101AWS	SD101BWS	SD101CWS	UNITS
Peak repetitive peak reverse voltage Working peak reverse voltage DC Blocking voltage	V_{RRM} V_{RMS} V_{DC}	60	50	40	VOLTS
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=10us	I_{FRM}	50 2.0			mA A
Power dissipation	Pd	200			mW
Thermal resistance junction to ambient	$R_{\Theta JA}$	300			℃/W
Storage temperature	T_{STG}	-65 to +125			℃

Electrical ratings @T_A=25℃

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

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RATINGS AND CHARACTERISTIC CURVES SD101AWS-SD101CWS

FIG. 1- POWER DERATING CURVE

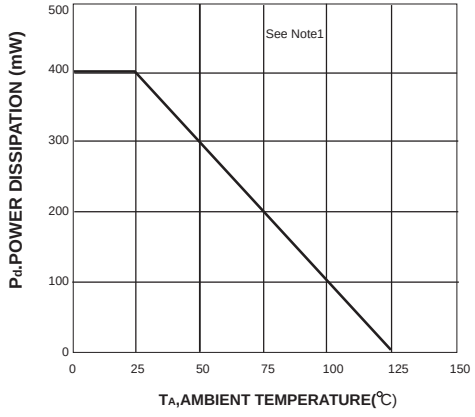


FIG. 2-TYPICAL FORWARD CHARACTERISTIC

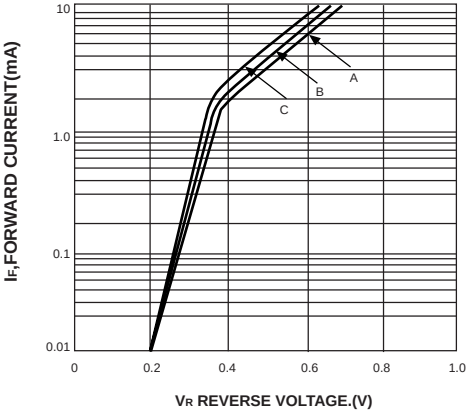


FIG.3- TYPICAL TOTAL CAPACITANCE VS REVERSE VOLTAGE

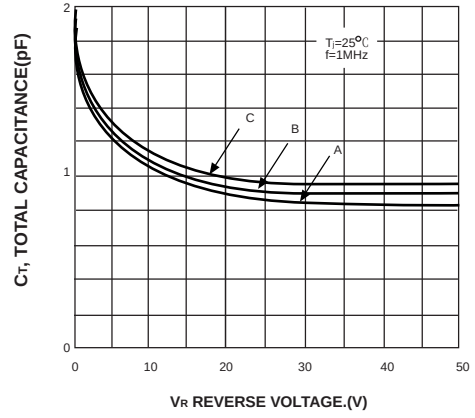
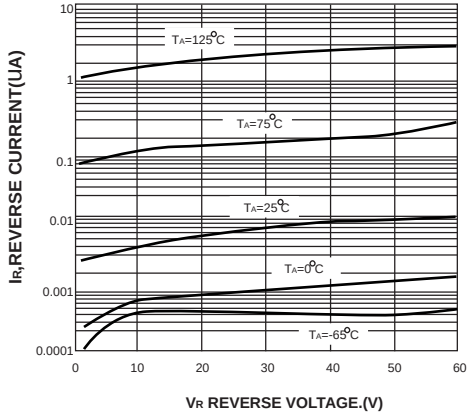


FIG. 4- TYPICAL REVERSE CHARACTERISTICS



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