



浩畅半导体
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SD101AW-SD101CW

SCHOTTKY DIODES

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客户确认：

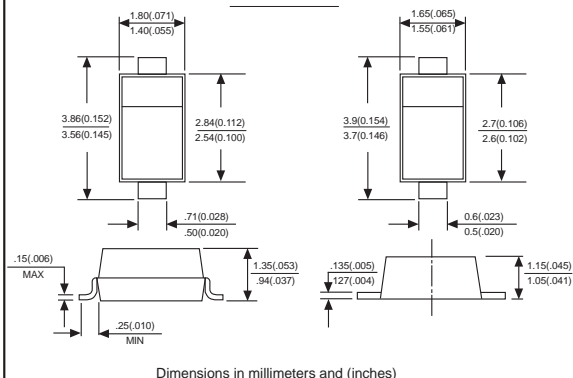
公司签章：

部门	工程部	品保部	采购部	
签名				
日期				



SD101AW-SD101CW SCHOTTKY DIODES

SOD-123



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: SD101AW:S1, SD101BW:S2, SD101CW:S3

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

PARAMETER	SYMBOLS	SD101AW	SD101BW	SD101CW	UNITS
Peak repetitive peak reverse voltage	V_{RRM}				VOLTS
Working peak reverse voltage	V_{RWM}	60	50	40	
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	I_{FRM}		50		mA
		@ $t=10\mu\text{s}$		2.0	
Power dissipation	P_d		400		mW
Thermal resistance junction to ambient	$R_{\theta JA}$		300		$^\circ\text{C}/\text{W}$
Storage temperature	T_{STG}		-65 to +125		$^\circ\text{C}$

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

PARAMETER	SYMBOLS	Min.	Typ.	Max.	Unit	Conditions
Reverse breakdown voltage	SD101AW	60			V	$I_R=10\mu\text{A}$
	SD101BW	50				$I_R=10\mu\text{A}$
	SD101CW	40				$I_R=10\mu\text{A}$
Forward voltage	SD101AW			0.41	V	$I_F=1.0\text{mA}$
	SD101BW			0.40		$I_F=1.0\text{mA}$
	SD101CW			0.39		$I_F=1.0\text{mA}$
	SD101AW			1.00		$I_F=15\text{mA}$
	SD101BW			0.95		$I_F=15\text{mA}$
	SD101CW			0.90		$I_F=15\text{mA}$
Reverse current	SD101AW			0.2	uA	$V_R=50\text{V}$
	SD101BW					$V_R=40\text{V}$
	SD101CW					$V_R=30\text{V}$
Capacitance between terminals	SD101AW			2.0	pF	$V_R=0\text{V}, f=1.0\text{MHz}$
	SD101BW			2.1		
	SD101CW			2.2		
Reverse recovery time	t_{rr}			1.0	ns	$I_F=I_R=5\text{mA}$ $I_{rr}=0.1 \times I_R, R_L=100\Omega$

RATINGS AND CHARACTERISTIC CURVES SD101AW-SD101CW

FIG. 1- POWER DERATING CURVE

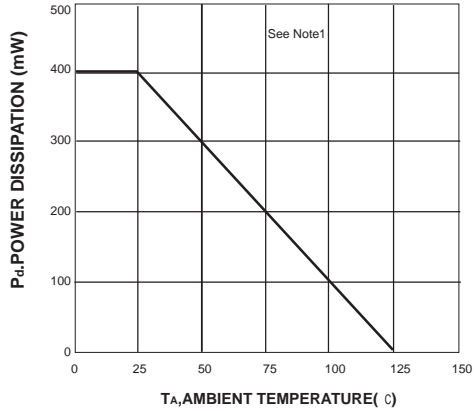


FIG. 2-TYPICAL FORWARD CHARACTERISTIC

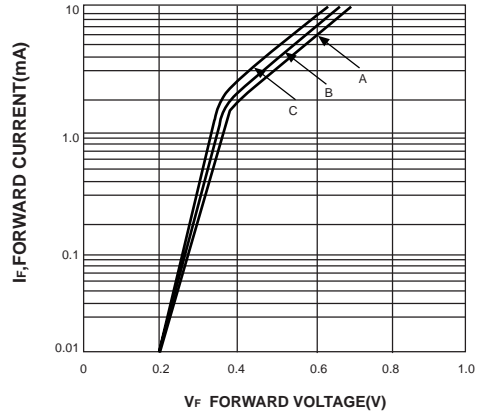


FIG.3- TYPICAL TOTAL CAPACITANCE VS REVERSE VOLTAGE

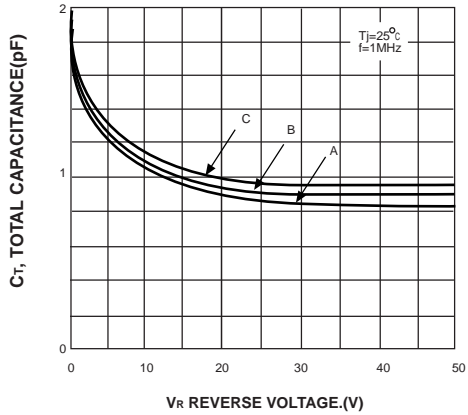


FIG. 4- TYPICAL REVERSE CHARACTERISTICS

