

SD101AWS-SD101CWS SCHOTTKY DIODES**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

**Maximum Ratings and Electrical Characteristics, Single Diode @T_A=25°C**

Parameter	Symbol	SD101AWS	SD101BW	SD101CWS	Unit
Peak Repetitive Peak reverse voltage	V _{RRM}				
Working Peak DC Blocking Voltage	V _{RWM}	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		mA
Power Dissipation	P _d		200		mW
Thermal Resistance Junction to Ambient	R _{θJA}		625		°C/W
Storage temperature	T _{STG}		-65~+125		°C

Electrical Ratings @T_A=25°C

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Reverse Breakdown Voltage	SD101AWS	60			V	IR=10μA
SD101BWS	V _{(BR)R}	50				IR=10μA
SD101CWS		40				IR=10μA
Forward voltage	SD101AWS			0.41	V	I _F =1.0mA
SD101BWS	V _F			0.40		I _F =1.0mA
SD101CWS				0.39		I _F =1.0mA
SD101AWS				1.00		I _F =15mA
SD101BWS				0.95		I _F =15mA
SD101CWS				0.90		I _F =15mA
Reverse current	SD101AWS			0.2	μA	V _R =50V
SD101BWS	I _{RM}					V _R =40V
SD101CWS						V _R =30V
Capacitance between terminals	SD101AWS			2.0	pF	V _R =0V,f=1.0MHz
SD101BWS	C _T			2.1		
SD101CWS				2.2		
Reverse Recovery Time	t _{rr}			1. 0	ns	I _F =I _R =5mA I _{rr} =0.1XI _R ,R _L =100Ω

Typical Characteristics

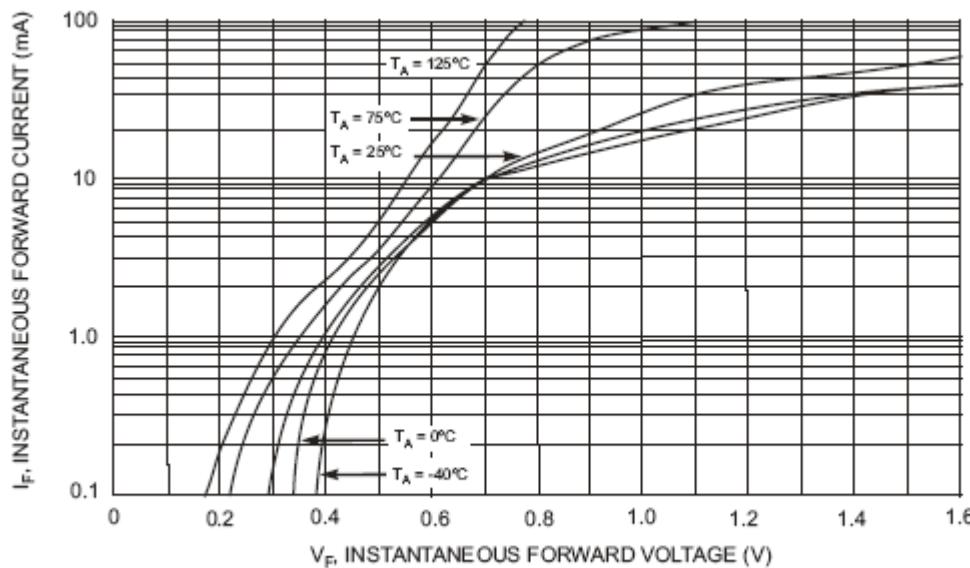


Fig. 1 Typical Forward Characteristics

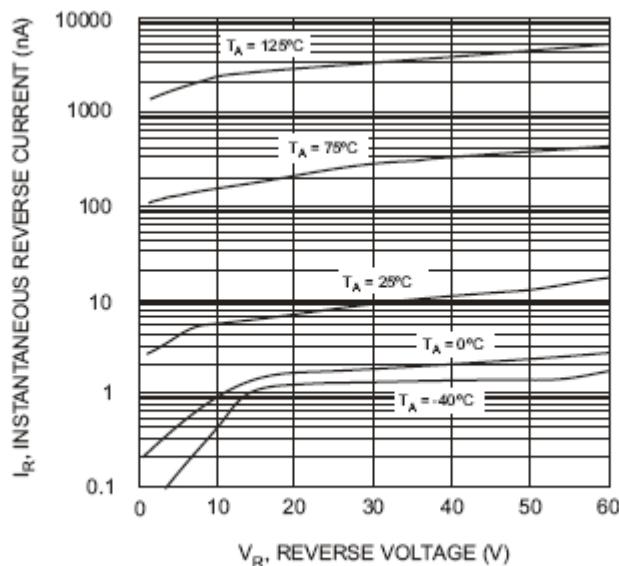


Fig. 2 Typical Reverse Characteristics

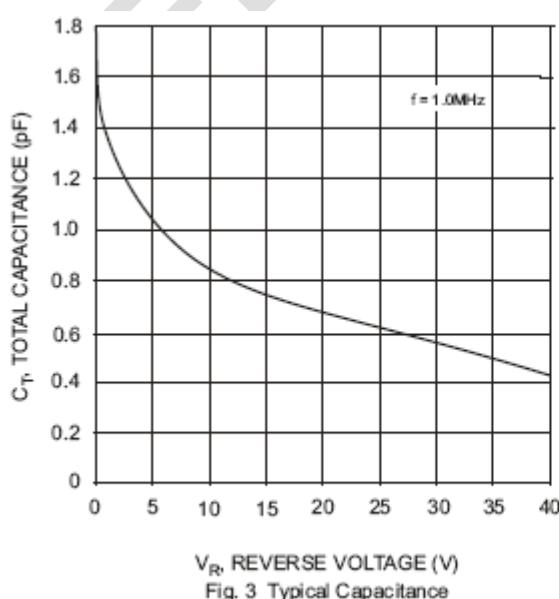


Fig. 3 Typical Capacitance

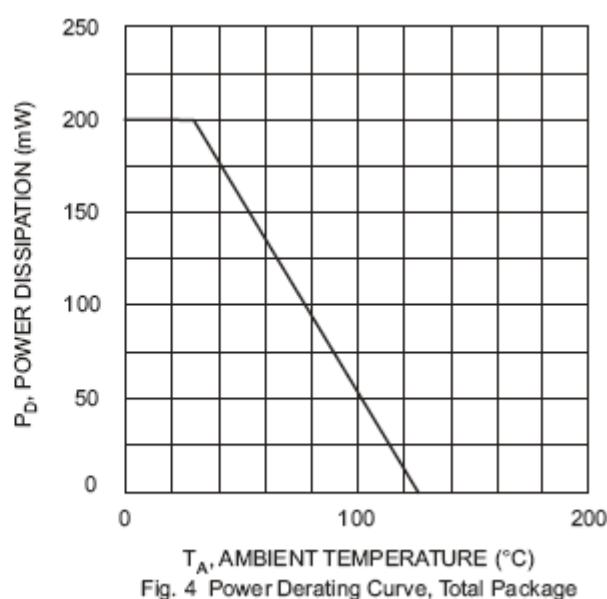


Fig. 4 Power Derating Curve, Total Package