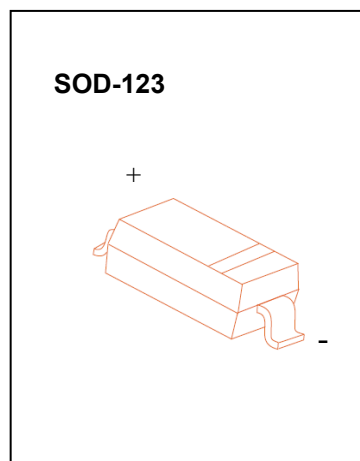


SCHOTTKY DIODES

FEATURES

- Low Forward Voltage Drop
- Guard Ring Construction for Transient Protection
- Negligible Reverse Recovery Time

MARKING: SD101AW: S1
 SD101BW: S2
 SD101CW: S3



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

Parameter	Symbol	SD101AW	SD101BW	SD101CW	Unit
Peak Repetitive Peak reverse voltage	V _{RRM}	60	50	40	V
Working Peak DC Blocking Voltage	V _{RWM} V _R				
RMS Reverse Voltage	V _{R(RMS)}	42	35	28	V
Forward Continuous Current	I _{FM}	15			mA
Repetitive Peak Forward Current @t<1.0s	I _{FRM}	50			mA
@t=10μs		2.0			A
Power Dissipation	P _d	500			mW
Thermal Resistance Junction to Ambient	R _{θJA}	250			°C/W
Storage temperature	T _{STG}	-65~+150			°C

Electrical Ratings @T_A=25°C

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Reverse Breakdown Voltage	SD101AW SD101BW SD101CW	60 50 40			V	IR=10μA IR=10μA IR=10μA
Forward voltage	SD101AW SD101BW SD101CW			0.41 0.40 0.39	V	I _F =1.0mA I _F =1.0mA I _F =1.0mA
	SD101AW SD101BW SD101CW			1.00 0.95 0.90		I _F =15mA I _F =15mA I _F =15mA
Reverse current	SD101AW SD101BW SD101CW			0.2	μA	V _R =50V V _R =40V V _R =30V
Capacitance between terminals	SD101AW SD101BW SD101CW			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 I _{rr} =0.1X I _R , R _L =100Ω

Typical Characteristics

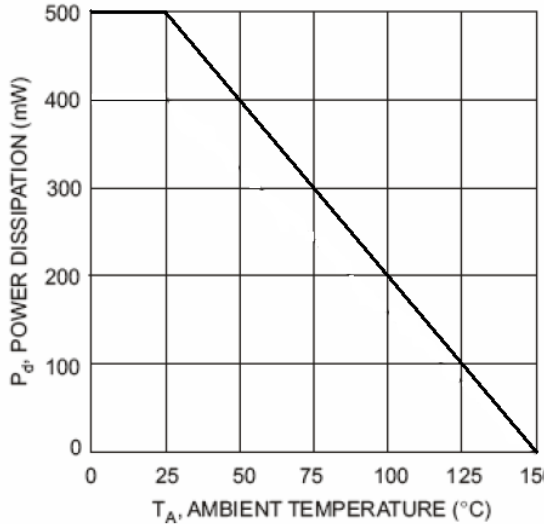


Fig. 1 Power Derating Curve

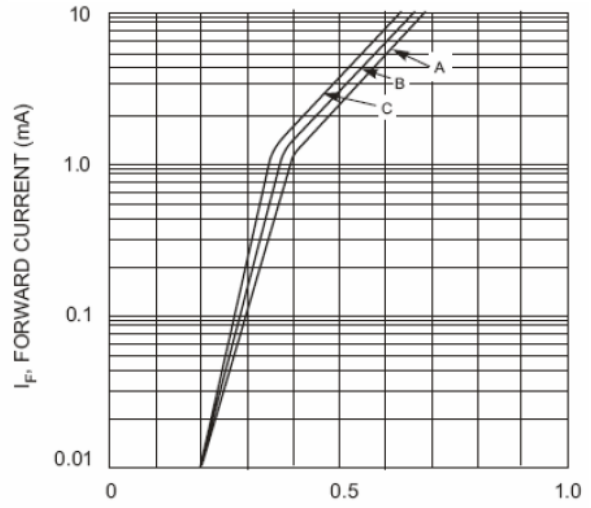


Fig. 2 Typical Forward Characteristic

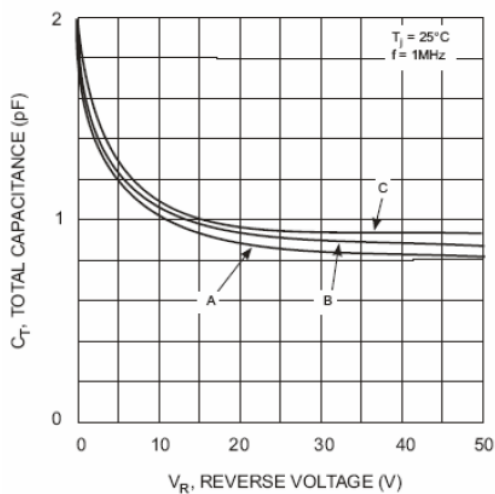


Fig. 3 Typical Total Capacitance vs Reverse Voltage

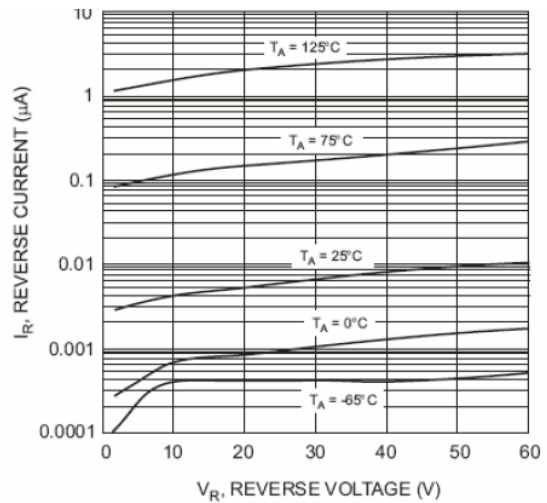


Fig. 4 Typical Reverse Characteristics