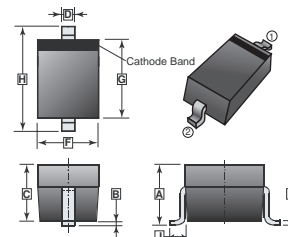


RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

SOD-123

FEATURES

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



MARKING : SD101AW: S1
SD101BW: S2
SD101CW: S3

REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	0.95	1.35	F	1.40	1.80
B	0.10	REF.	G	2.55	2.85
C	1.05	1.15	H	3.55	3.85
D	0.30	0.78	J	-	-
E	0.08	0.25			

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS at T_A = 25°C

PARAMETER	SYMBOL	SD101AW	SD101BW	SD101CW	UNIT
Peak Repetitive Peak Reverse voltage	V _{RM}	60	50	40	V
Working Peak	V _{RWM}	60	50	40	V
DC Blocking Voltage	V _R	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	50			mA
	@t = 10µS	2.0			A
Power Dissipation	P _D	400			mW
Thermal Resistance Junction to Ambient	R _{θJA}	300			°C/W
Storage Temperature	T _{STG}	-65~125			°C

ELECTRICAL RATING at T_A = 25°C

PARAMETERS	SYMBOL	MIN.	MAX.	UNIT	TEST CONDITIONS
Reverse Breakdown Voltage	SD101AW	60		V	I _R = 10µA
	SD101BW	50			
	SD101CW	40			
Forward Voltage	SD101AW		0.41	mV	I _F = 1.0mA
	SD101BW		0.40		
	SD101CW		0.39		
Forward Voltage	SD101AW		1.00		I _F = 15mA
	SD101BW		0.95		
	SD101CW		0.90		
Reverse Current	SD101AW		0.2	µA	V _R = 50V
	SD101BW		0.2		V _R = 40V
	SD101CW		0.2		V _R = 30V
Capacitance between Terminals	SD101AW		2.0	pF	V _R = 0V, f = 1.0MHz
	SD101BW		2.1		
	SD101CW		2.2		
Reverse Recovery Time	T _{rr}		1.0	ns	I _F = I _R = 5mA, I _{rr} = 0.1X I _R , R _L = 100Ω

RATINGS AND CHARACTERISTIC CURVES

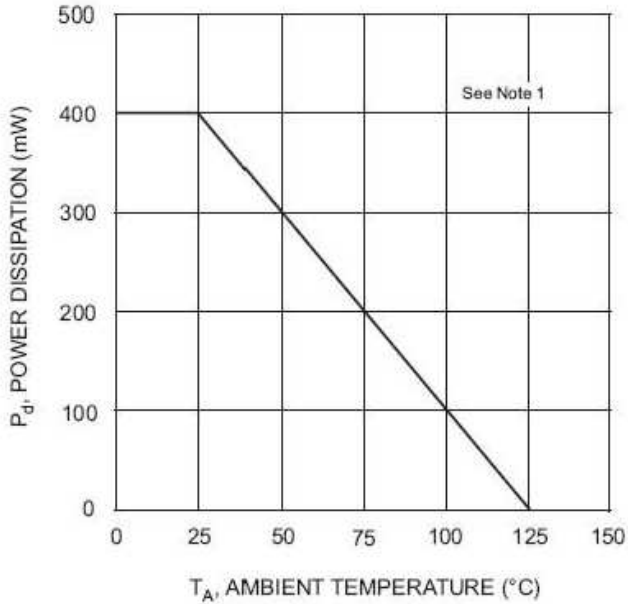


Fig. 1 Power Derating Curve

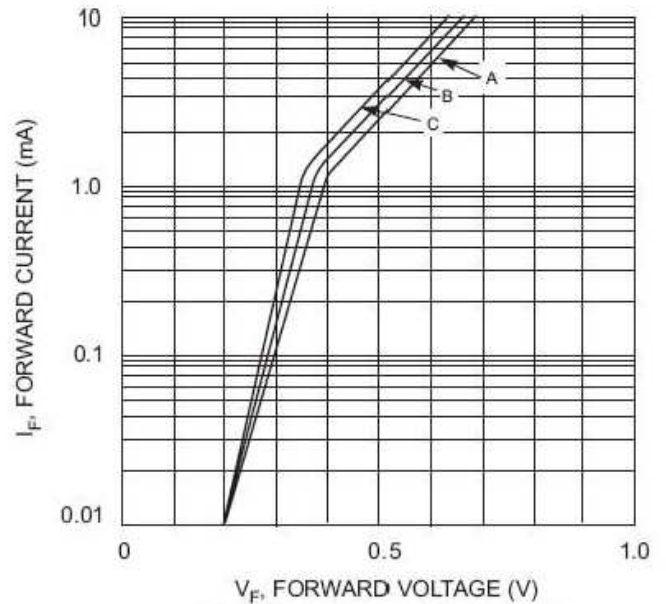


Fig. 2 Typical Forward Characteristic

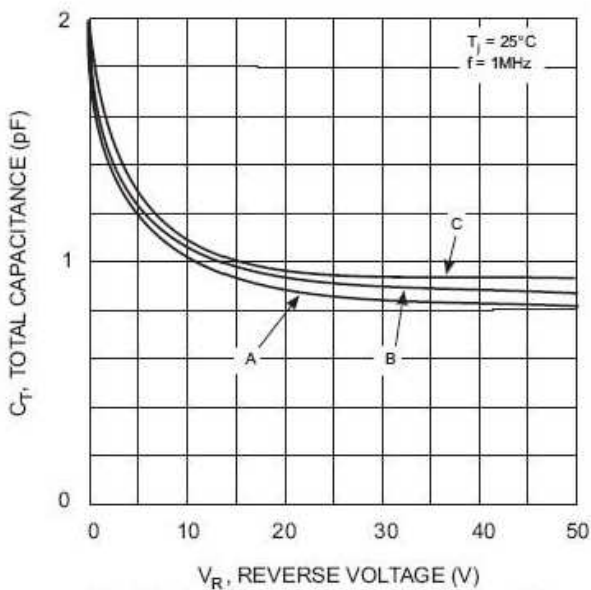


Fig. 3 Typical Total Capacitance vs Reverse Voltage

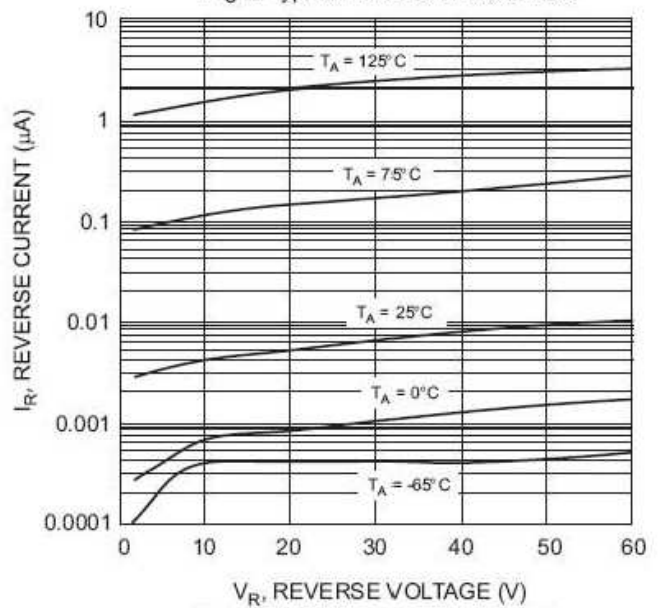


Fig. 4 Typical Reverse Characteristics