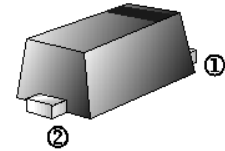


RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

FEATURES

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

SOD-523



MARKING

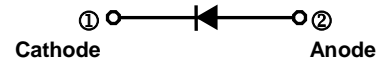
S4

PACKAGE INFORMATION

Package	MPQ	Leader Size
SOD-523	8K	7 inch

ORDER INFORMATION

Part Number	Type
SD103AX-C	Lead (Pb)-free and Halogen-free



ABSOLUTE MAXIMUM RATINGS (T_A=25°C unless otherwise specified)

Parameter	Symbol	Ratings	Unit
Peak Repetitive Peak Reverse voltage	V _{RRM}	40	V
Working Peak Reverse Voltage	V _{RWM}	40	V
DC Blocking Voltage	V _R	40	V
RMS Reverse Voltage	V _{R(RMS)}	28	V
Forward Continuous Current	I _{FM}	350	mA
Repetitive Peak Forward Current @t ≤ 1s	I _{FRM}	1	A
Power Dissipation	P _D	150	mW
Thermal Resistance Junction-Ambient	R _{θJA}	667	°C/W
Storage Temperature	T _J , T _{STG}	125, -55~150	°C

ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise specified)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Reverse Breakdown Voltage	V _{(BR)R}	40	-	-	V	I _R = 100μA
Reverse Current	I _R	-	-	5	uA	V _R =30V
Forward Voltage	V _F	-	-	0.37	V	I _F =20mA
				0.6		I _F =200mA
Capacitance Between Terminals	C _T	-	50	-	pF	V _R =0, f=1MHz
Reverse Recovery Time	t _{rr}	-	10	-	nS	I _F =I _R =200mA, I _{RR} =0.1X I _R , R _L =100Ω

RATINGS AND CHARACTERISTIC CURVES

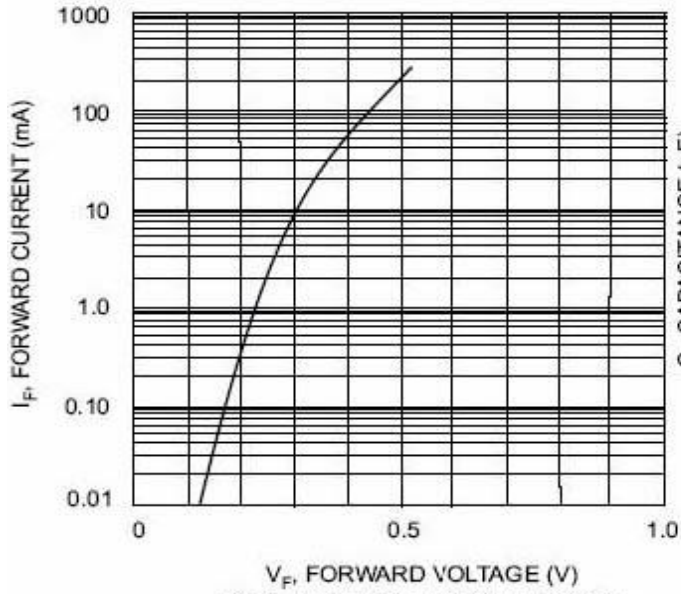


Fig. 1 Typical Forward Characteristics

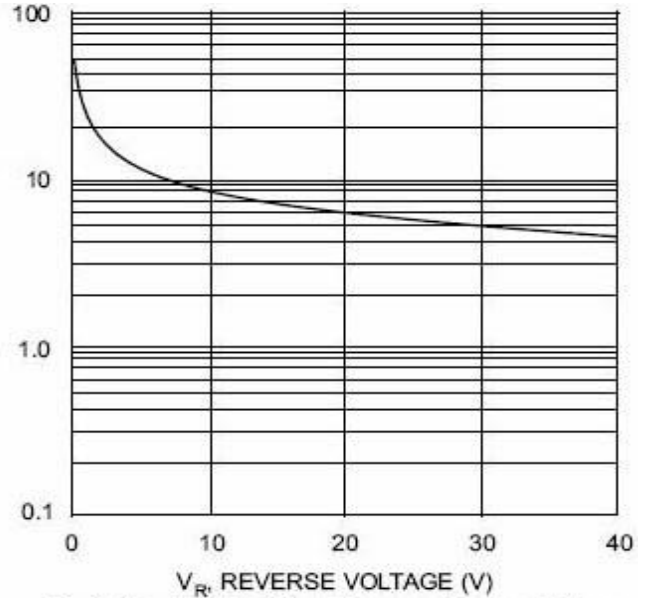
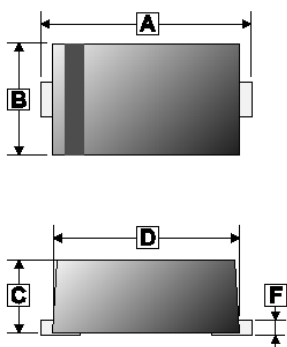


Fig. 2 Typ. Junction Capacitance vs Reverse Voltage

PACKAGE OUTLINE DIMENSIONS

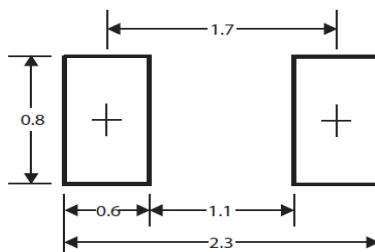
SOD-523



REF.	Millimeter	
	Min.	Max.
A	1.50	1.70
B	0.70	0.90
C	0.50	0.77
D	1.10	1.30
E	0.25	0.40
F	0.05	0.20

MOUNTING PAD LAYOUT

SOD-523



*Dimensions in millimeters