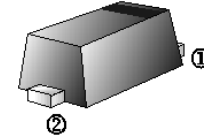


RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

FEATURES

- Low Forward Voltage Drop
- Extremely Small SOD-523 Package
- Surface Device Type Mounting
- Band Indicates Cathode

SOD-523



APPLICATION

- Low Voltage Rectification
- Reverse Polarity Protection
- Low Power Consumption Applications

MARKING

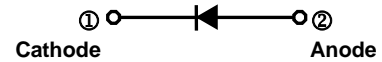
S4

PACKAGE INFORMATION

Package	MPQ	Leader Size
SOD-523	3K	7 inch

ORDER INFORMATION

Part Number	Type
SCS551S-40-C	Lead (Pb)-free and Halogen-free



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

Parameter	Symbol	Ratings	Unit
Maximum Repetitive Reverse Voltage	V _{RRM}	40	V
Maximum DC Blocking Reverse Voltage	V _{RWM}	40	
Average Forward Current	I _F	1	A
Peak Forward Surge Current @t=8.3ms single half sine-wave	I _{FSM}	10	A
Junction Temperature	T _J	-55~125	°C
Storage Temperature Range	T _{STG}	-55~150	°C

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

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Forward Voltage	V _F	-	-	0.37	V	I _F =100mA
		-	-	0.5		I _F =500mA
		-	-	0.6		I _F =1A
Breakdown Voltage	V _{BR}	40	-	-	V	I _R =100μA
Reverse Leakage Current	I _R	-	-	50	μA	V _R =20V
		-	-	80		V _R =40V
Junction Capacitance	C _J	-	90	-	pF	V _R =5V, f=1MHz

RATINGS AND CHARACTERISTIC CURVES

Fig 1 Typical Forward Current Derating Curve

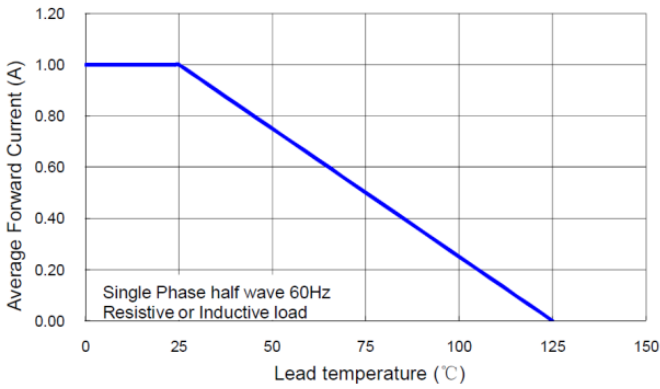


Fig 2 Total Capacitance vs. Reverse Voltage

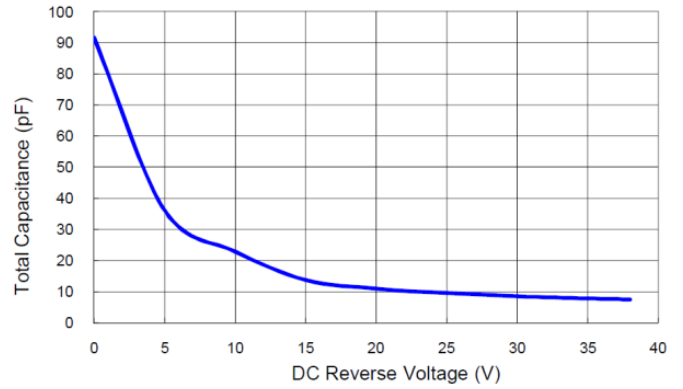


Fig 3 Typical Instantaneous Forward Characteristics

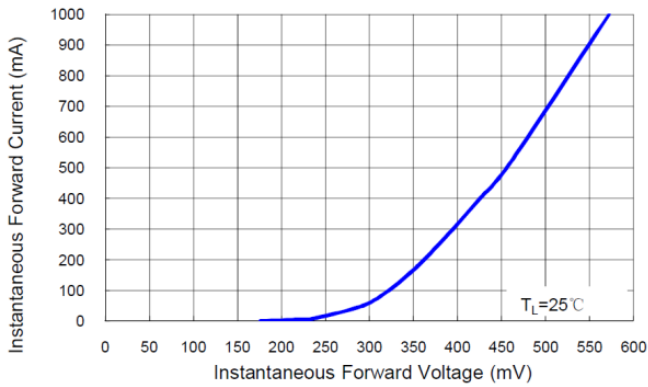
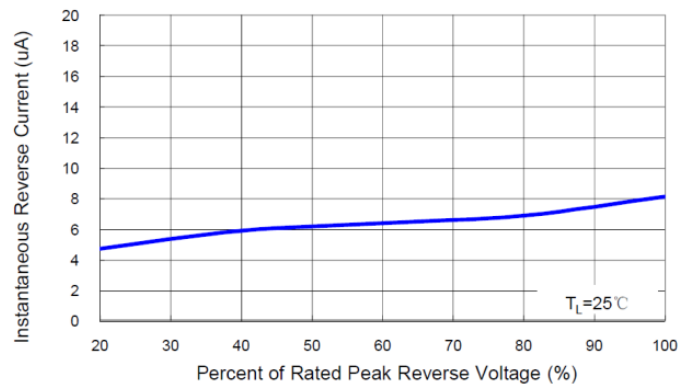
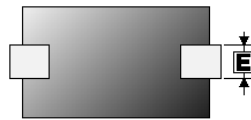
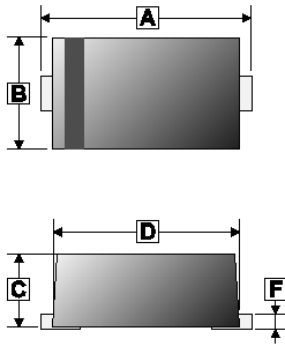


Fig 4 Typical Reverse Characteristics



PACKAGE OUTLINE DIMENSIONS

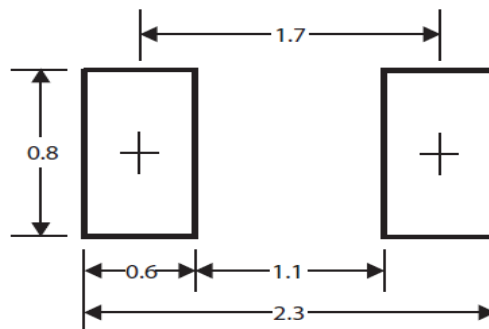
SOD-523



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