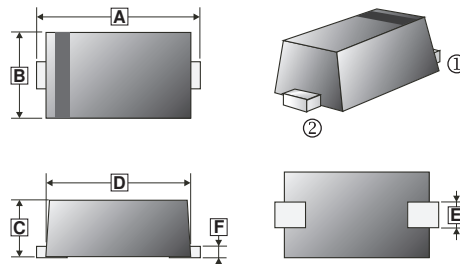


RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

FEATURES

- Rectifying Small Power
- Ultra Small Mold Type
- Surface Device Type Mounting
- High Reliability
- Low Forward Voltage Drop
- Band Indicates Cathode

SOD-523



MECHANICAL DATA

- Case: SOD-523, Molded Plastic
- Terminals: Solder per MIL-STD-202 Method 208
- Mounting Position: Any

MARKING

3B

REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	1.50	1.70	D	1.10	1.30
B	0.70	0.90	E	0.25	0.35
C	0.50	0.77	F	0.07	0.20

PACKAGE INFORMATION

Package	MPQ	Leader Size
SOD-523	3K	7 inch



ORDER INFORMATION

Part Number	Type
SCS520S-40-C	Lead (Pb)-free and Halogen-free

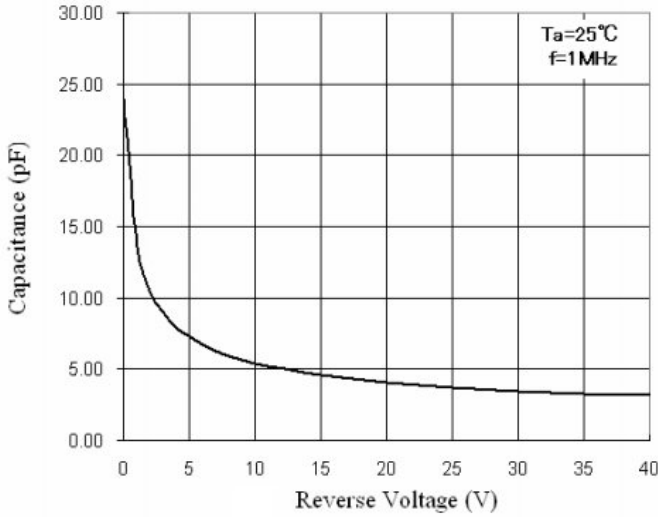
MAXIMUM RATINGS ($T_A=25^{\circ}\text{C}$ unless otherwise specified)

Parameter	Symbol	Ratings	Unit
DC Reverse Voltage	V_R	40	V
Average Forward Current	$I_{F(AV)}$	200	mA
Maximum Instantaneous Forward Voltage @ $I_F=200\text{mA}$	V_F	0.6	V
Maximum DC Reverse Current @ $V_R=10\text{V}, T_A=25^{\circ}\text{C}$	I_R	1	μA
Power Dissipation	P_D	200	mW
Operating Junction Temperature Range	T_J	125	$^{\circ}\text{C}$
Storage Temperature Range	T_{STG}	-55~125	$^{\circ}\text{C}$

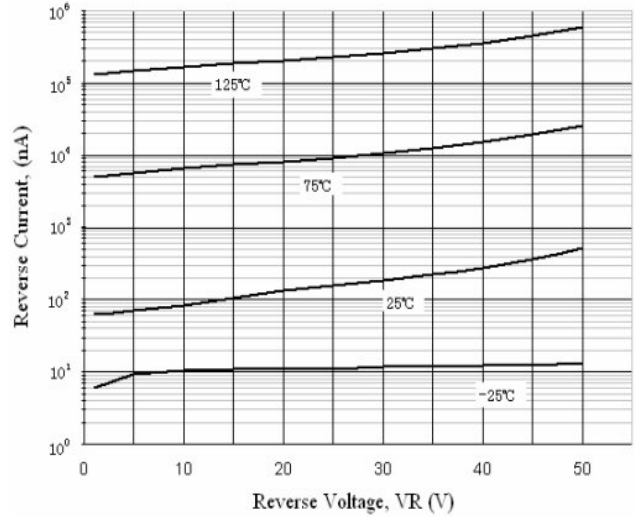
Note:
 1. These ratings are limiting values above which the serviceability of the diode may be impaired.

ELECTRICAL CHARACTERISTICS

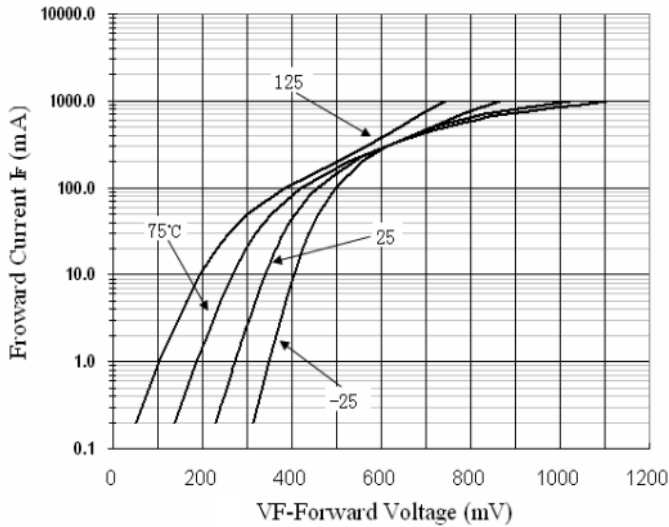
Total Capacitance



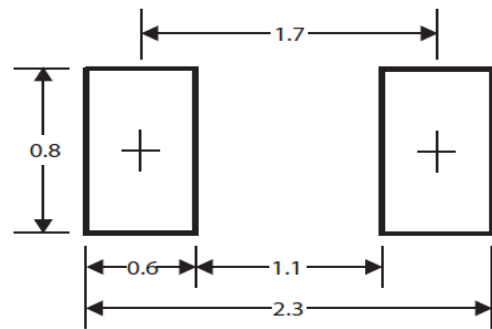
Reverse Current vs Reverse Voltage



Forward Voltage vs Ambient Temperature



Mounting Pad Layout



*Dimensions in millimeters