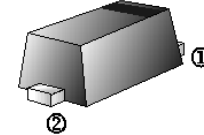


RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

FEATURES

- High Speed Switching
- High Reliability
- High Surge Current Handling Capability

SOD-523



MECHANICAL DATA

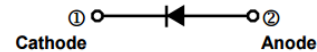
- Extremely Small Surface Mounting Type (EMD2)
- Silicon Epitaxial Planer

MARKING



PACKAGE INFORMATION

Package	MPQ	Leader Size
SOD-523	3K	7 inch



ORDER INFORMATION

Part Number	Type
SCS400S-C	Lead (Pb)-free and Halogen-free

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

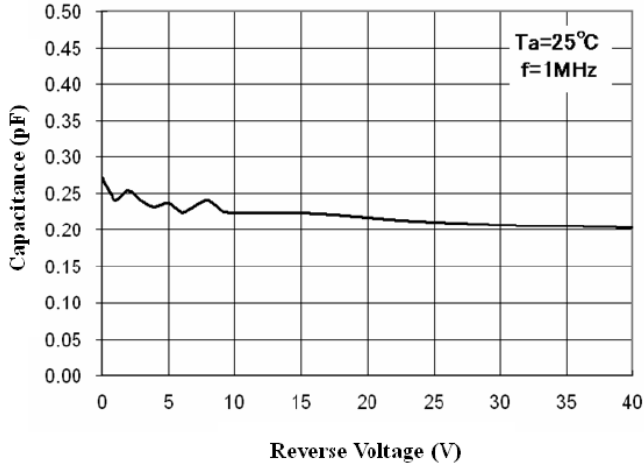
Parameters	Symbol	Ratings	Unit
Non-Repetitive Peak Reverse Voltage	V _{RSM}	100	V
Continuous Forward Current	I _o	200	mA
Peak Forward Surge Current (Pulse Width=1s)	I _{FSM}	500	mA
Power Dissipation	P _D	200	mW
Operating Junction and Storage Temperature	T _J , T _{STG}	150, -55~150	°C

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

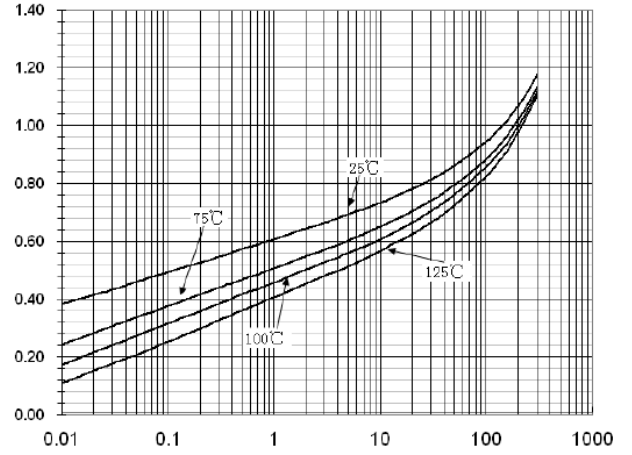
Parameters	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Breakdown Voltage	B _V	100	-	-	V	I _R =100μA
Forward Voltage	V _F	-	-	1.2	V	I _F =100mA
Reverse Leakage Current	I _R	-	-	100	nA	V _R =80V
Capacitance	C	-	4	-	pF	V _R =0.5V, f=1MHz
Reverse Recovery Time	T _{RR}	-	4	-	nS	I _F =10mA, V _R =6V, R _L =100Ω

CHARACTERISTIC CURVES

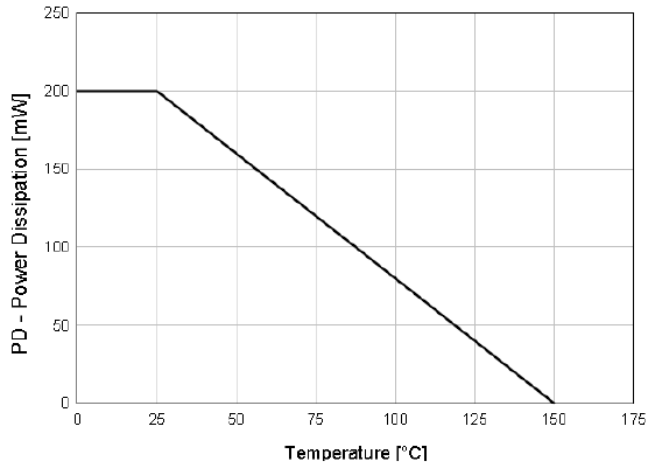
Total Capacitance



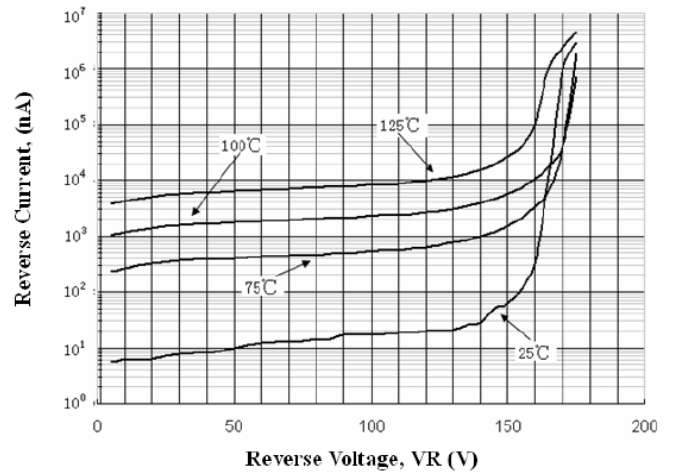
Forward Voltage vs Ambient Temperature



Power Derating Curve

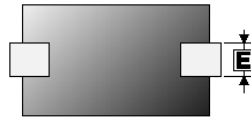
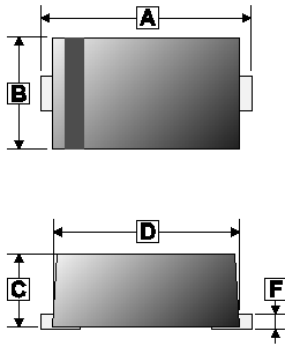


Reverse Current vs Reverse Voltage



PACKAGE OUTLINE DIMENSIONS

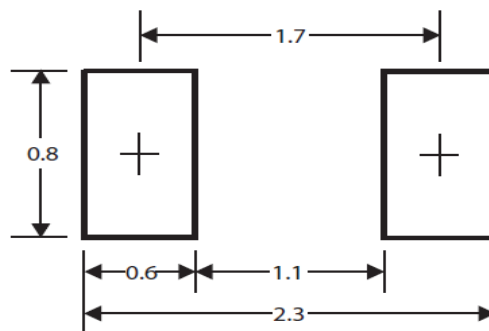
SOD-523



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