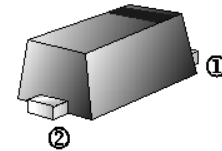


RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

FEATURES

- Low Forward Voltage Drop
- Low Reverse Current
- High Reliability
- Small Surface Mounting Type
- Qualified to AEC-Q101 Standards for High Reliability

SOD-523



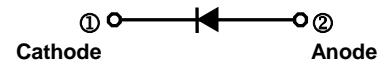
MARKING

D1

D

PACKAGE INFORMATION

Package	MPQ	Leader Size
SOD-523	8K	7 inch



ORDERING INFORMATION

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

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

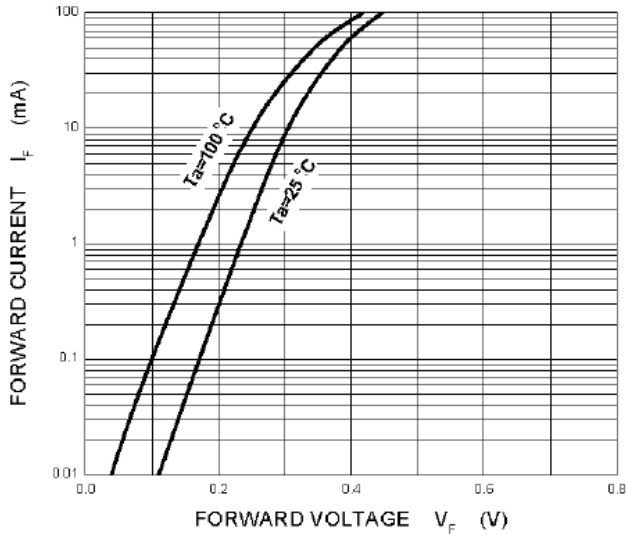
Parameter	Symbol	Ratings	Unit
DC Blocking Voltage	V _R	40	V
Mean Rectifying Current	I _O	200	mA
Peak Forward Surge Current @t=8.3ms	I _{FSM}	1	A
Power Dissipation	P _D	150	mW
Thermal Resistance Junction-Ambient	R _{θJA}	667	°C/W
Operating Junction Temperature Range	T _J	-40~125	°C
Storage Temperature Range	T _{STG}	-55~150	

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

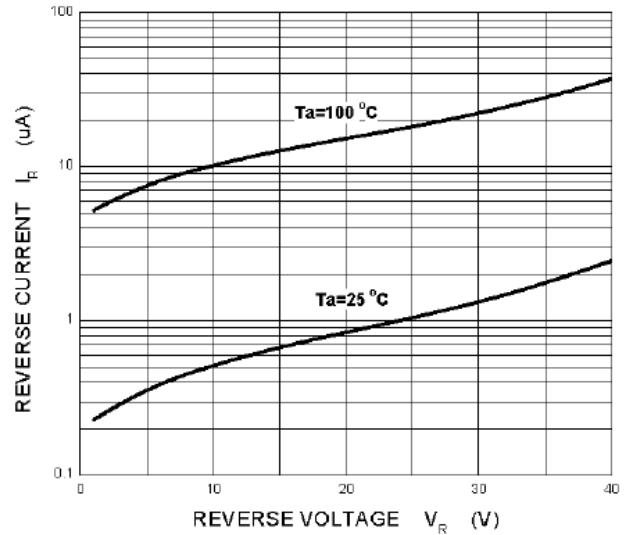
Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Forward Voltage	V _F	-	-	0.39	V	I _F =10mA
		-	-	0.55		I _F =100mA
Reverse Current	I _R	-	-	1	μA	V _R =10V
		-	-	10		V _R =40V

RATINGS AND CHARACTERISTIC CURVES

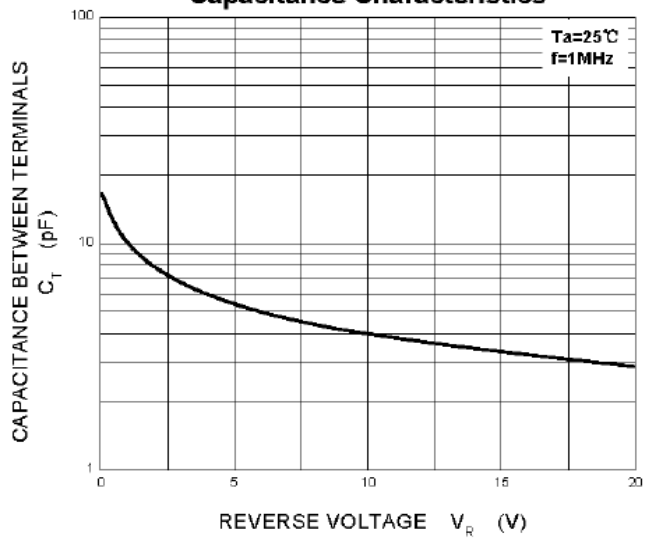
Forward Characteristics



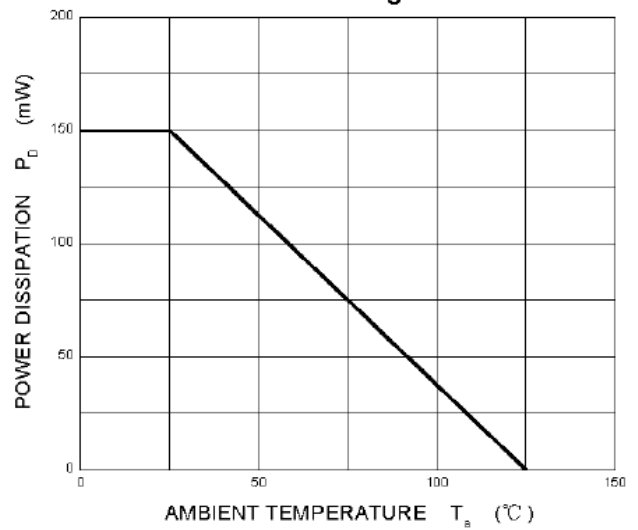
Reverse Characteristics



Capacitance Characteristics

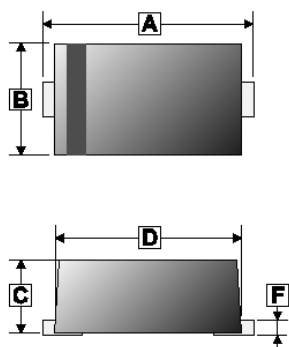


Power Derating Curve



PACKAGE OUTLINE DIMENSIONS

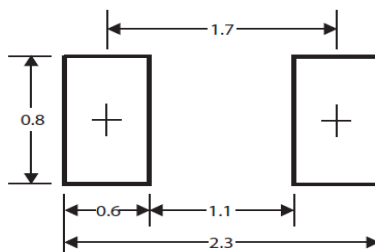
SOD-523



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