

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

FEATURES

- Low Forward Voltage Schottky Rectifier

SOD-323



MECHANICAL DATA

- Case: Molded plastic, JEDEC SOD-323
- Terminal : Solder plated, Solderable per MIL-STD-750, Method 2026
- Polarity : Indicated by cathode band
- Mounting Position : Any

MARKING

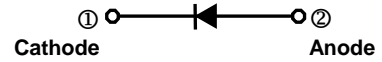
C4

PACKAGE INFORMATION

Package	MPQ	Leader Size
SOD-323	3K	7 inch

ORDER INFORMATION

Part Number	Type
SCS500X-40-C	Lead (Pb)-free and Halogen-free



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

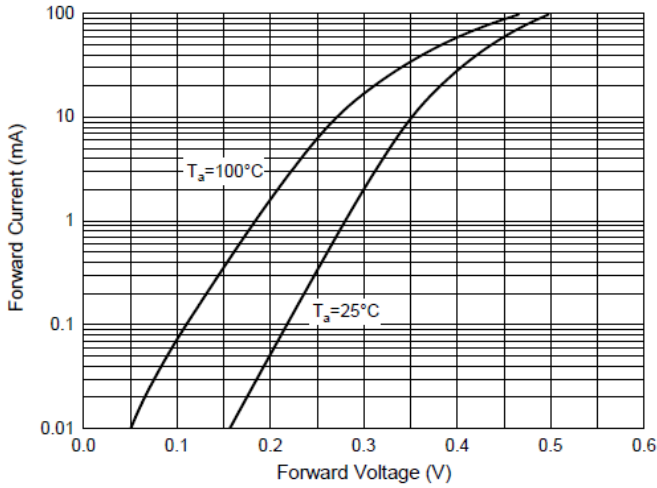
Parameter	Symbol	Ratings	Unit
Repetitive Peak Reverse Voltage	V _{RRM}	45	V
DC Blocking Voltage	V _R	40	
Continuous Forward Current	I _O	0.1	A
Non-Repetitive Peak Forward Current @t=8.3ms	I _{FSM}	1	A
Power Dissipation	P _D	200	mW
Operating Junction Temperature	T _J	125	°C
Storage Temperature Range	T _{STG}	-55~125	

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

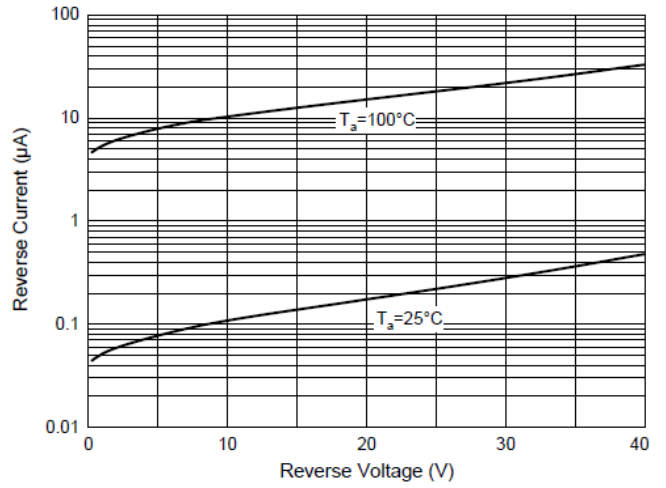
Parameters	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Forward Voltage	V _F	-	-	0.45	V	I _F =10mA
Reverse Current	I _R	-	-	1	μA	V _R =10V
Total Capacitance	C _T	-	4	-	pF	V _R =10V, f=1MHz

RATINGS AND CHARACTERISTIC CURVES

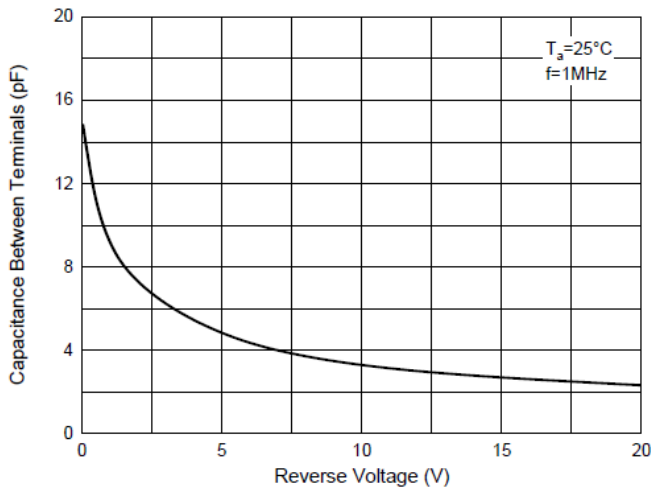
Typical Instantaneous Forward Characteristics



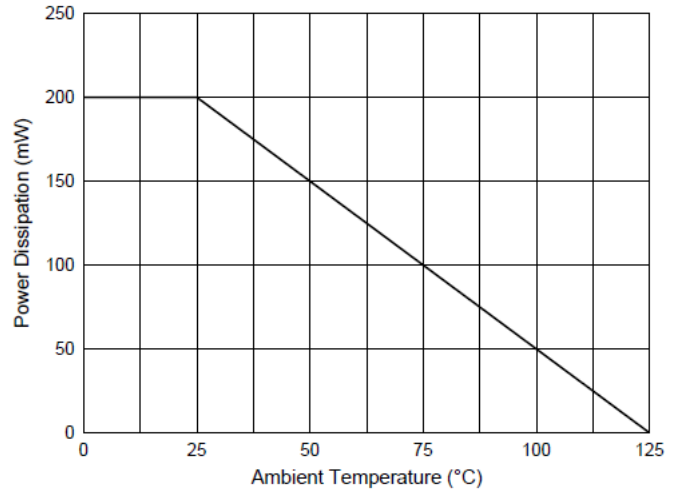
Typical Reverse Leakage Characteristics



Capacitance Characteristics

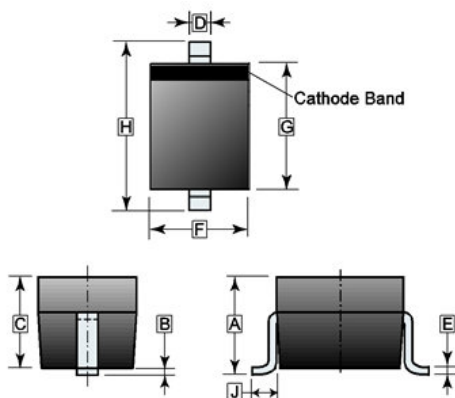


Power Derating Curve



PACKAGE OUTLINE DIMENSIONS

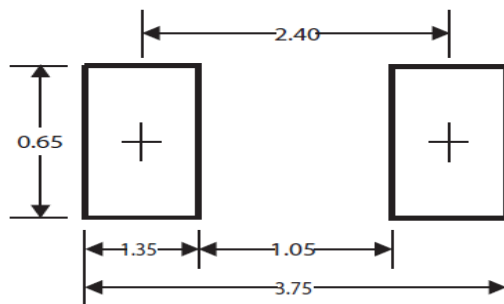
SOD-323



REF.	Millimeter	
	Min.	Max.
A	1.05 REF.	
B	0.07 REF.	
C	0.80	1.10
D	0.25	0.40
E	0.05	0.25
F	1.10	1.50
G	1.50	1.95
H	2.30	2.80
J	0.475 REF.	

MOUNTING PAD LAYOUT

SOD-323



*Dimensions in millimeters