

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

## FEATURES

- High Frequency Inverters
- Low Voltage
- Free Wheeling
- Polarity Protection Application
- AEC-Q101 Qualified

SOD-323



## MARKING

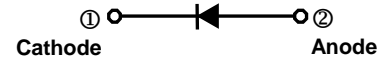
SL

## PACKAGE INFORMATION

Package	MPQ	Leader Size
SOD-323	3K	7 inch

## ORDER INFORMATION

Part Number	Type
SCS140VCR-C	Lead (Pb)-free and Halogen-free



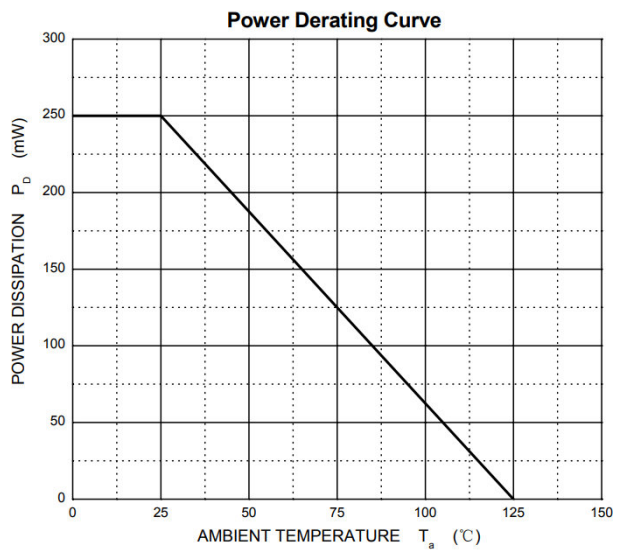
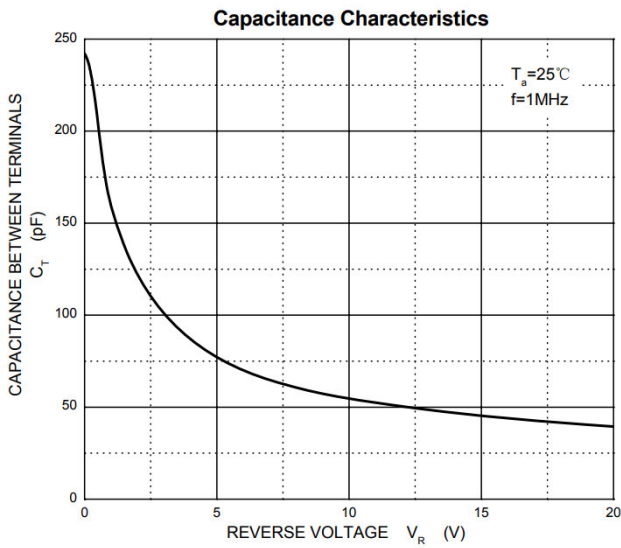
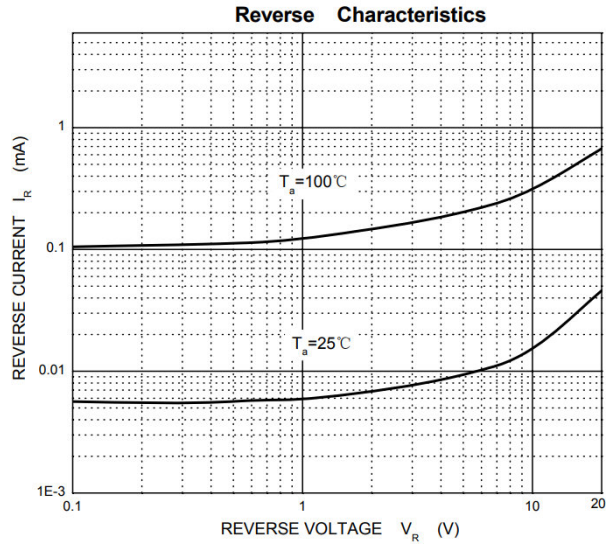
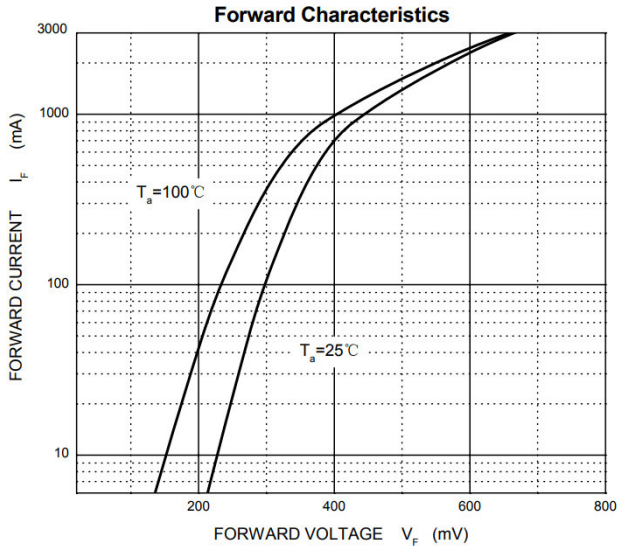
## ABSOLUTE MAXIMUM RATINGS (T<sub>J</sub>=25°C unless otherwise specified)

Parameter	Symbol	Ratings	Unit
Non-Repetitive Peak Revers	V <sub>RRM</sub>	40	V
Non-Repetitive Peak Reverse Voltage	V <sub>RM</sub>	40	
DC Blocking Voltage	V <sub>R</sub>	40	
RMS Reverse Voltage	V <sub>RMS</sub>	28	V
Continuous Forward Current	I <sub>O</sub>	1	A
Non-Repetitive Peak Forward Current @t=8.3ms	I <sub>FSM</sub>	9	A
Repetitive Peak Forward Current	I <sub>FRM</sub>	1.5	A
Power Dissipation	P <sub>D</sub>	250	mW
Thermal Resistance Junction-Ambient	R <sub>θJA</sub>	400	°C/W
Operating Junction Temperature	T <sub>J</sub>	125	°C
Storage Temperature Range	T <sub>STG</sub>	-55~150	

## ELECTRICAL CHARACTERISTICS (T<sub>J</sub>=25°C unless otherwise specified)

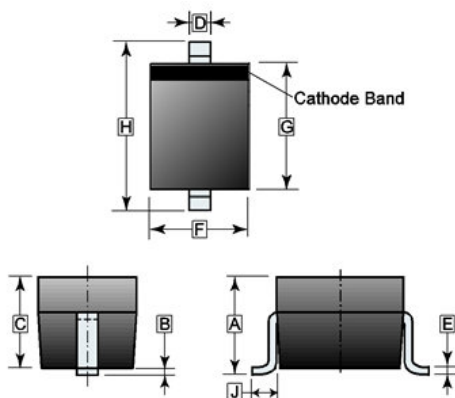
Parameters	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Reverse Breakdown	V <sub>BR</sub>	40	-	-	V	I <sub>R</sub> =1mA
Forward Voltage	V <sub>F</sub>	-	-	0.6	V	I <sub>F</sub> =1A
		-	-	0.9		I <sub>F</sub> =3A
Reverse Current	I <sub>R</sub>	-	-	1	mA	V <sub>R</sub> =40V
Diode Capacitance	C <sub>D</sub>	-	120	-	pF	V <sub>R</sub> =4V, f=1MHz

**RATINGS AND CHARACTERISTIC CURVES**



**PACKAGE OUTLINE DIMENSIONS**

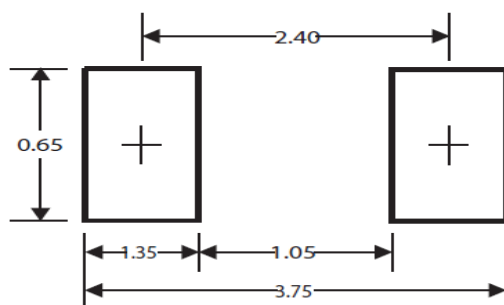
SOD-323



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