

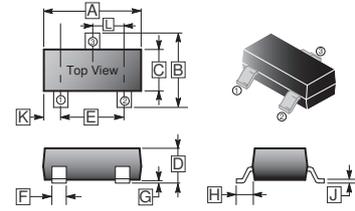
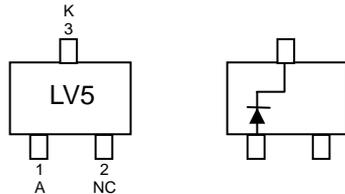
RoHS Compliant Product  
A suffix of "-C" specifies halogen & lead-free

**SOT-323**

**DESCRIPTION**

The SCS420SDF is designed for low power rectification.

**MARKING: LV5**



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	1.80	2.20	G	0.100 REF.	
B	1.80	2.45	H	0.525 REF.	
C	1.15	1.35	J	0.08	0.25
D	0.80	1.10	K	-	-
E	1.20	1.40	L	0.650 TYP.	
F	0.20	0.40			

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

PARAMETER	SYMBOL	VALUE	UNIT
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	40	V
Maximum RMS Voltage	$V_{RMS}$	28	V
Maximum DC Blocking Voltage	$V_{DC}$	40	V
Peak Forward Surge Current at 8.3mSec Single Half Sine-Wave	$I_{FSM}$	1.0	A
Typical Junction Capacitance between Terminal <sup>1</sup>	$C_J$	6.0	pF
Maximum Average Forward Rectified Current	$I_O$	0.1	A
Total Power Dissipation	$P_D$	225	mW
Junction & Storage Temperature	$T_J, T_{STG}$	125, -40~125	$^\circ\text{C}$

**ELECTRICAL CHARACTERISTICS** ( $T_A=25^\circ\text{C}$  unless otherwise specified.)

PARAMETER	SYMBOL	MIN	MAX	UNIT	TEST CONDITION
Reverse Breakdown Voltage	$V_{(BR)R}$	40	-	V	$I_R=100\mu\text{A}$
Maximum Instantaneous Forward Voltage	$V_F$	-	450	mV	$I_F=10\text{mA}$
Maximum Average Reverse Current	$I_R$	-	1.0	$\mu\text{A}$	$V_R=10\text{V}$

Note: 1. Measured at 1.0 MHz and applied reverse voltage of 10 volts.  
2. ESD sensitive product handling required.

**CHARACTERISTIC CURVES**

