

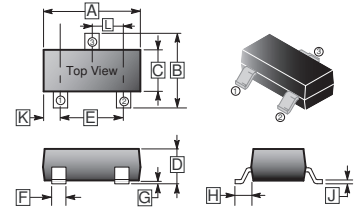
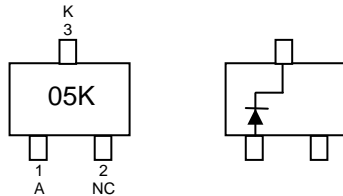
RoHS Compliant Product  
A suffix of "-C" specifies halogen & lead-free

**SOT-323**

## DESCRIPTION

The SCS402SDF is high frequency rectification for switching power supply.

## MARKING: 05K



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	$V_{RRM}$	30	V
Maximum RMS Voltage	$V_{RMS}$	21	V
Maximum DC Blocking Voltage	$V_{DC}$	30	V
Peak Forward Surge Current at 8.3mSec Single Half Sine-Wave	$I_{FSM}$	3.0	A
Typical Junction Capacitance between Terminal <sup>1</sup>	$C_J$	40	pF
Maximum Average Forward Rectified Current	$I_O$	0.3	A
Total Power Dissipation	$P_D$	225	mW
Junction & Storage Temperature	$T_J, T_{STG}$	125, -55~125	$^\circ\text{C}$

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

PARAMETER	SYMBOL	MIN	MAX	UNIT	TEST CONDITION
Reverse Breakdown Voltage	$V_{(BR)R}$	30	-	V	$I_R=100\mu\text{A}$
Maximum Instantaneous Forward Voltage	$V_F$	-	500	mV	$I_F=300\text{mA}$
Maximum Average Reverse Current	$I_R$	-	50	$\mu\text{A}$	$V_{R1}=10\text{V}$
		-	100	$\mu\text{A}$	$V_{R2}=30\text{V}$

Note: 1. Measured at 1.0 MHz and 0 reverse bias voltage.  
2. ESD sensitive product handling required.

**CHARACTERISTIC CURVES**

