

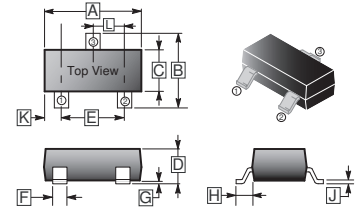
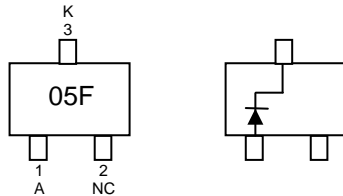
RoHS Compliant Product  
A suffix of "-C" specifies halogen & lead-free

**SOT-323**

## DESCRIPTION

The SCS400SDF is high frequency rectification for switching power supply.

## MARKING: 05F



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<sub>A</sub>=25°C unless otherwise specified.)

PARAMETER	SYMBOL	VALUE	UNIT
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	40	V
Maximum RMS Voltage	V <sub>RMS</sub>	28	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	40	V
Peak Forward Surge Current at 8.3mSec Single Half Sine-Wave	I <sub>FSM</sub>	3.0	A
Typical Junction Capacitance between Terminal <sup>1</sup>	C <sub>J</sub>	20	pF
Maximum Average Forward Rectified Current	I <sub>O</sub>	0.5	A
Total Power Dissipation	P <sub>D</sub>	225	mW
Junction & Storage Temperature	T <sub>J</sub> , T <sub>STG</sub>	125, -40~125	°C

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

PARAMETER	SYMBOL	MIN	MAX	UNIT	TEST CONDITION
Reverse Breakdown Voltage	V <sub>(BR)R</sub>	40	-	V	I <sub>R</sub> =100μA
Maximum Instantaneous Forward Voltage	V <sub>F</sub>	-	550	mV	I <sub>F</sub> =500mA
Maximum Average Reverse Current	I <sub>R</sub>	-	30	μA	V <sub>R1</sub> =10V
		-	50	μA	V <sub>R2</sub> =30V

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

**CHARACTERISTIC CURVES**

