Elektronische Bauelemente

SCS401D

0.2 A, 30 V

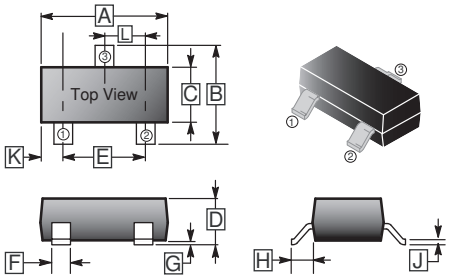
Surface Mount Schottky Barrier Rectifier

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

DESCRIPTION

The SCS401D is high frequency rectification for switching power supply

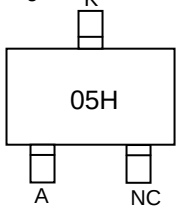
SC-59



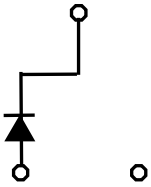
REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	2.70	3.10	G	0.10 REF.	
B	2.25	3.00	H	0.40 REF.	
C	1.30	1.70	J	0.10	0.20
D	1.00	1.40	K	0.45	0.55
E	1.70	2.30	L	0.85	1.15
F	0.35	0.50			

MARKING CODE

Marking



Circuit



ABSOLUTE MAXIMUM RATINGS at T_A = 25°C

PARAMETER	SYMBOL	RATINGS	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 8.3 m Sec single half sine-wave	I_{FSM}	3.0	A
Typical Junction Capacitance between Terminal[1]	C_J	40	pF
Maximum Average Forward Rectified Current	I_O	0.2	A
Total Power Dissipation	P_D	225	mW
Junction, Storage Temperature	T_J, T_{STG}	125, -55~125	℃

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

PARAMETERS	SYMBOL	MIN.	MAX.	UNIT	TEST CONDITIONS
Reverse Breakdown Voltage	$V_{(BR)R}$	30	-	V	I_R = 100μA
Maximum Instantaneous Forward Voltage	V_F	-	500	mV	I_F = 200mA
Maximum Average Reverse Current	I_R	-	50	μA	V_{R1} = 10V
			100	μA	V_{R2} = 30V

Note: 1. Measured at 1.0MHz and0 reverse bias voltage.
2. ESD sensitive product handling required.

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RATINGS AND CHARACTERISTIC CURVES

FIG. 1 - FORWARD CHARACTERISTICS

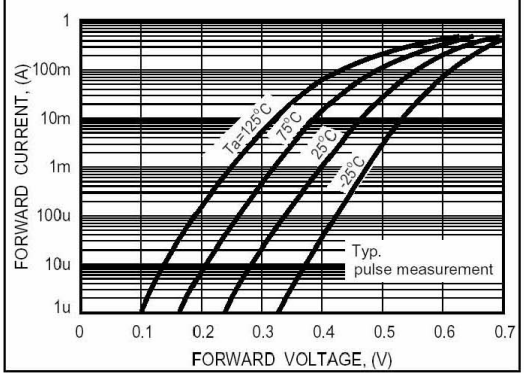

FIG. 2 - REVERSE CHARACTERISTICS

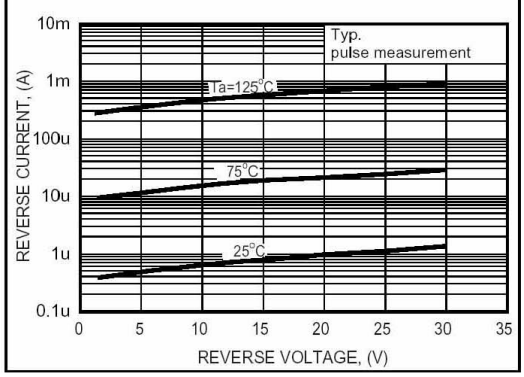

FIG. 3 - TYPICAL JUNCTION CAPACITANCE

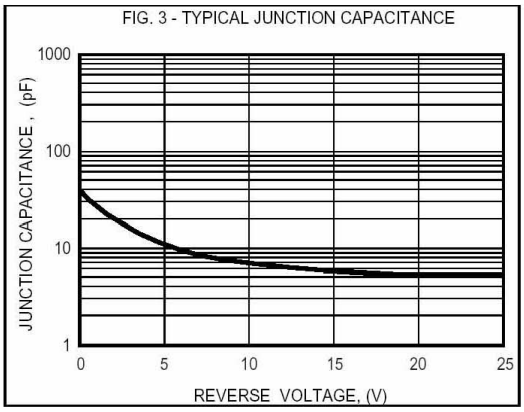

FIG. 4 - FORWARD POWER DISSIPATION CHARACTERISTICS