Elektronische Bauelemente

SCS0540LP-C

0.5A, 40V

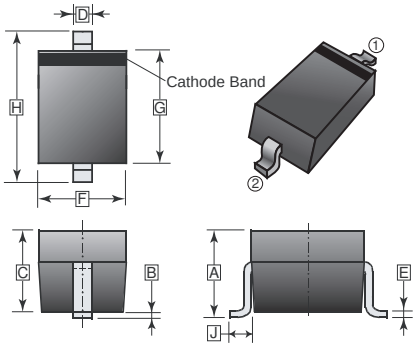
Low VF Schottky Barrier Rectifiers

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

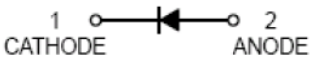
FEATURES

- High Current Capability
- Extremely Low Thermal Resistance
- For Surface Mount Application
- Higher Temp Soldering: 250℃ for 10 Seconds at Term inals
- Low Forward Voltage

SOD-123



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	0.94	1.35	F	1.40	1.80
B	0.10 REF.		G	2.54	2.85
C	1.00	1.30	H	3.55	3.86
D	0.30	0.78	J	0.50 REF.	
E	0.08	0.25			



MECHANICAL DATA

- Case: Molded Plastic
- Epoxy: UL 94V-0 Rate Flame Retardant
- Lead: Solderable Per MIL-STD-202, Method 208 Guaranteed
- Polarity: Color Band Denotes Cathode End
- Mounting Position: Any

MARKING

BM

PACKAGE INFORMATION

Package	MPQ	Leader Size
SOD-123	3K	7 inch

ORDER INFORMATION

Part Number	Type
SCS0540LP-C	Lead (Pb)-free and Halogen-free

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Rating 25℃ ambient temperature unless otherwise s pecified. Single phase half wave, 60Hz, resistive or inductive load.
For capacitive load, de-rate current by 20%.)

Parameter	Symbol	Ratings	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	40	V
Working Peak Reverse Voltage	V_{RWM}	40	V
Maximum DC Blocking Voltage	V_R	40	V
Average Forward Current @T_J=90℃	$I_{F(AV)}$	0.5	A
Peak Forward Current @8.3ms Half Sine	I_{FSM}	10	A
Maximum Instantaneous Forward Voltage @I_{FM}=0.5A, T_A=25℃	V_F	0.43	V
Maximum DC Reverse Current @Rated DC Blocking Voltage, T_J=25℃	I_R	0.2	mA
Typical Junction Capacitance [1]	C_J	30	pF
Operating and Storage Temperature Range	T_J, T_{STG}	125, -55~150	℃

Note:
1. Measured at 1MHZ and applied reverse of 5V D.C.

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RATINGS AND CHARACTERISTIC CURVES

FIG.1 TYPICAL FORWARD CHARACTERISTICS

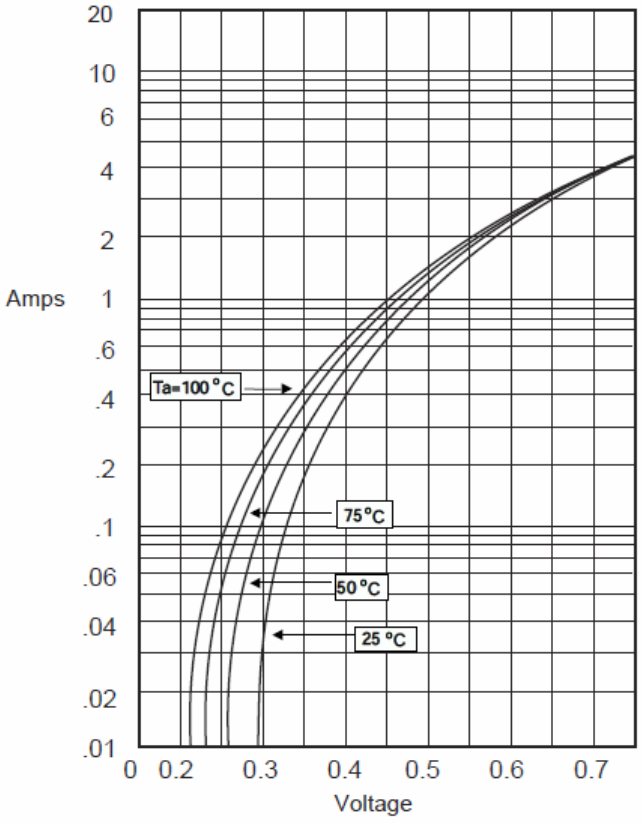

FIG.2-JUNCTION CAPACITANCE

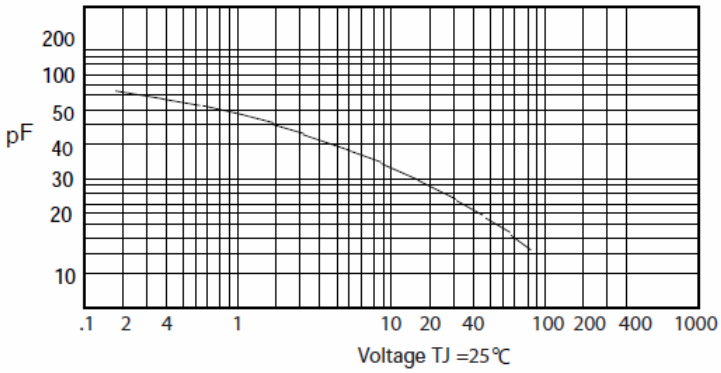

FIG. 4 - REVERSE CHARACTERISTICS

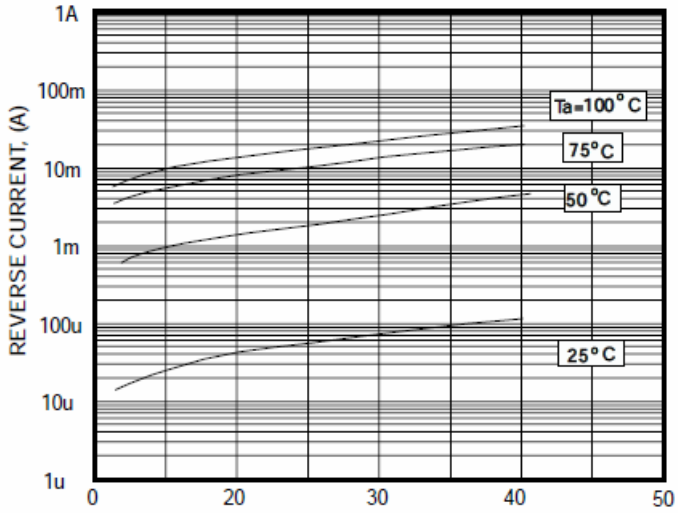

FIG.3-FORWARD DERATING CURVE

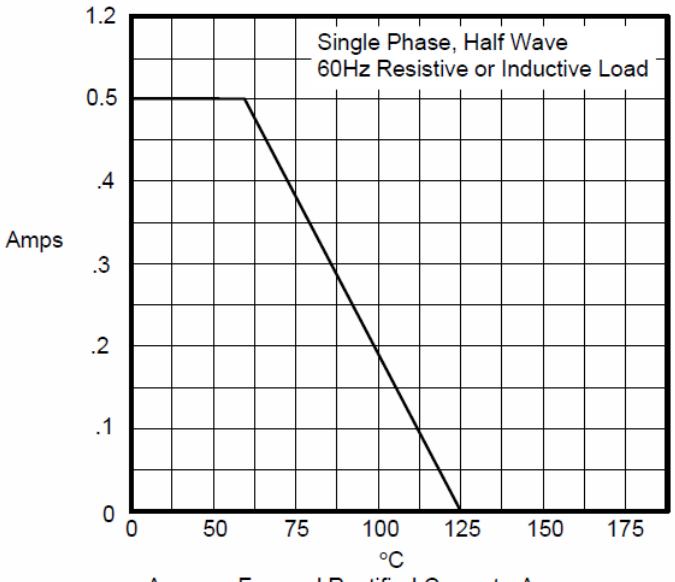

FIG .5-PEAK FORWAED SURGE CURRENT