Elektronische Bauelemente

SCS0540LP

VOLTAGE 40V

0.5 Amp Low V_F Schottky Barrier Rectifiers

RoHS Compliant Product

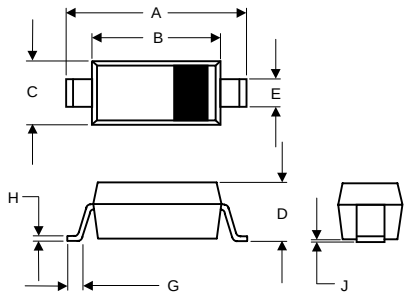
A suffix of "-C" specifies halogen & lead-free

FEATURES

- High Current Capability
- Extremely Low Thermal Resistance
- For Surface Mount Application
- Higher Temp Soldering : 250 ˚C for 10 Seconds At Terminals
- Low Forward Voltage

PACKAGE DIMENSIONS

SOD–123
PLASTIC PACKAGE



DIM	MILLMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	3.55	3.85	0.140	0.152
B	2.55	2.85	0.100	0.112
C	1.40	1.80	0.550	0.071
D	------	1.15	------	0.045
E	0.30	0.78	0.120	0.031
G	0.15	------	0.006	-------
H	-----	0.25	-------	0.001
J	-----	0.15	-------	0.006

MECHANICAL DATA

Case: Molded plastic
Epoxy: UL 94V-0 rate flame retardant
Lead: Axial leads, solderable per MIL-STD-202, method 208 guaranteed
Polarity: Color band denotes cathode end
Mounting position: Any

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25˚C ambient temperature unless otherwise specified.
Single phase half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

TYPE NUMBER	SCS0540LP	UNITS
Maximum Recurrent Peak Reverse Voltage	40	V
Working Peak Reverse Voltage	40	V
Maximum DC Blocking Voltag	40	V
Average Forward Current ($I_{F(AV)}$@ T_J=90˚C)	0.5	A
Reak Forward Current (I_{FSM}@ 8.3ms half sine)	10	A
Maximum Instantaneous Forward Voltage (V_F@I_{FM} = 0.5A , T_A = 25 ˚C)	0.43	V
Maximum DC Reverse Current At Rated DC Blocking Voltage (I_R @ T_J = 25˚C)	0.2	mA
Typical Junction Capacitance (C_J)	30	pF
Operating Temperature Range T_J	-50 ~ +125	˚C
Storage Temperature Range T_{STG}	-65 ~ +150	˚C

1. Measured at 1MHz and applied reverse voltage of 5.0V D.C.
2. Thermal Resistance Junction to Case.

Marking Code : BM

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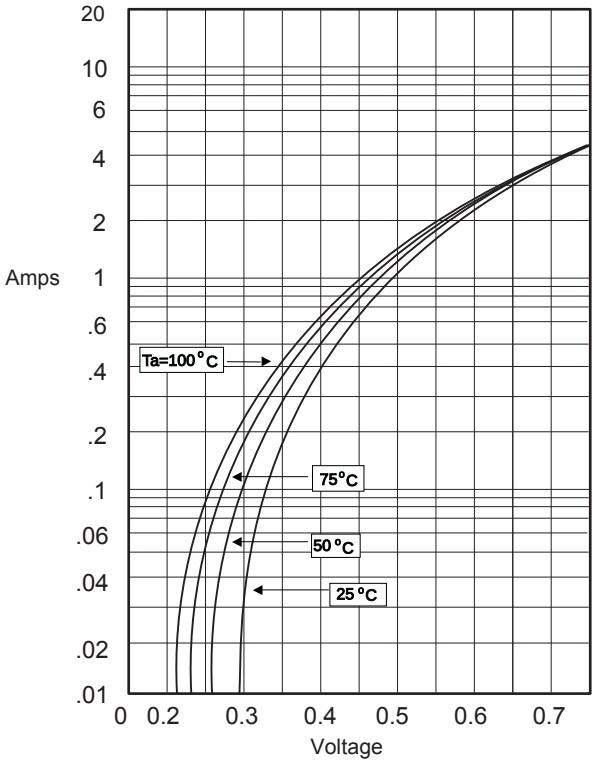
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RATING AND CHARACTERISTIC CURVES (SCS0540LP)

FIG.1 TYPICAL FORWARD CHARACTERISTICS



Instantaneous Forward Voltage - Volts

FIG.2-JUNCTION CAPACITANCE

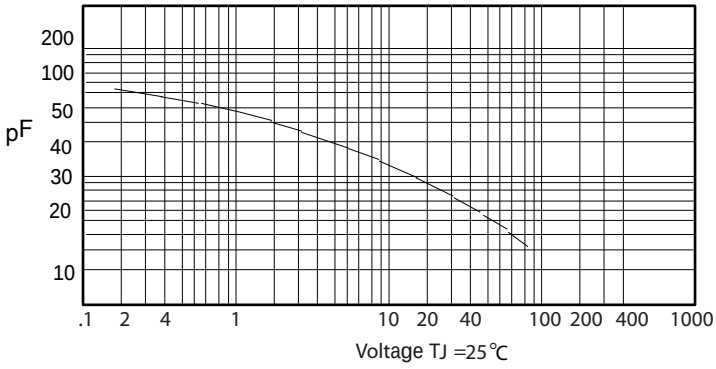
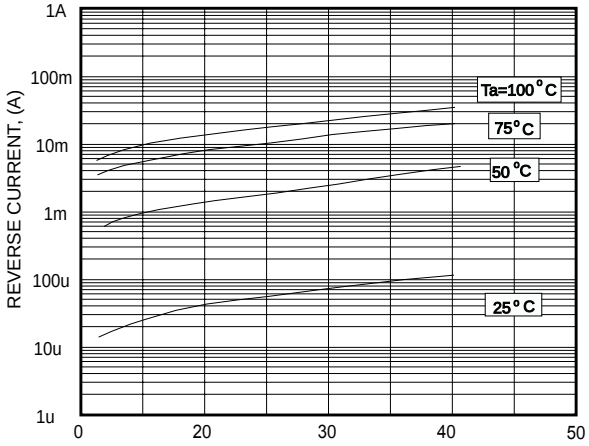
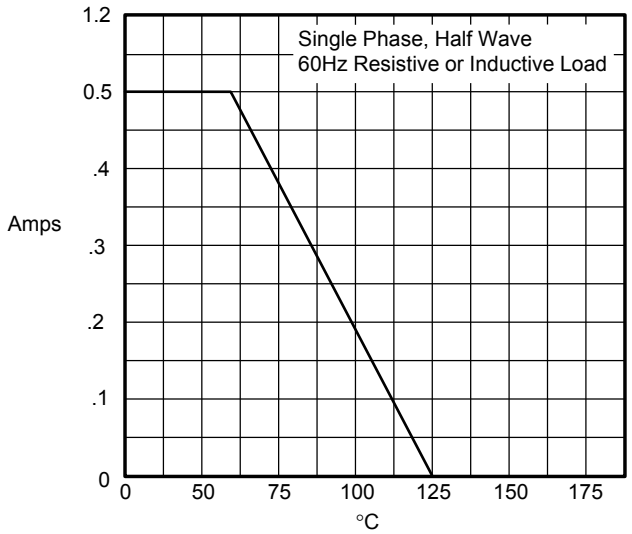


FIG. 4 - REVERSE CHARACTERISTICS



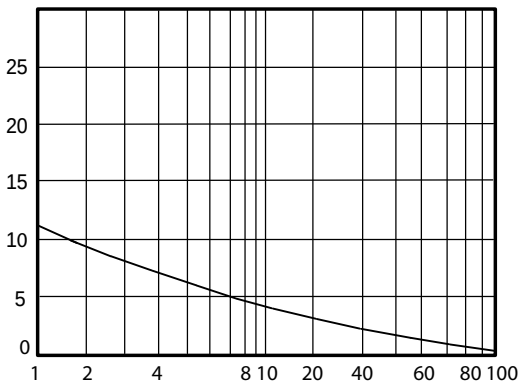
REVERSE VOLTAGE, (V)

FIG.3-FORWARD DERATING CURVE



Average Forward Rectified Current - Amperesversus
Ambient Temperature - °C

FIG .5-PEAK FORWAED SURGE CURRENT



Peak Forward Surge Current - Amperesversus
Number Of Cycles At 60Hz - Cycles