

30mA Schottky barrier diode - 40V
PRIMARY CHARACTERISTICS

V_{RM}	40V
I_O	30mA
V_F	0.37V
$T_{J,Max}$	125°C

SOD-882
PACKAGE

Marking : 5


FEATURES

- Low Forward Voltage Drop
- Small Surface Mounting Type
- RoHS Compliant
- Green EMC
- Matte Tin(Sn) Lead Finish
- Band Indicates Cathode

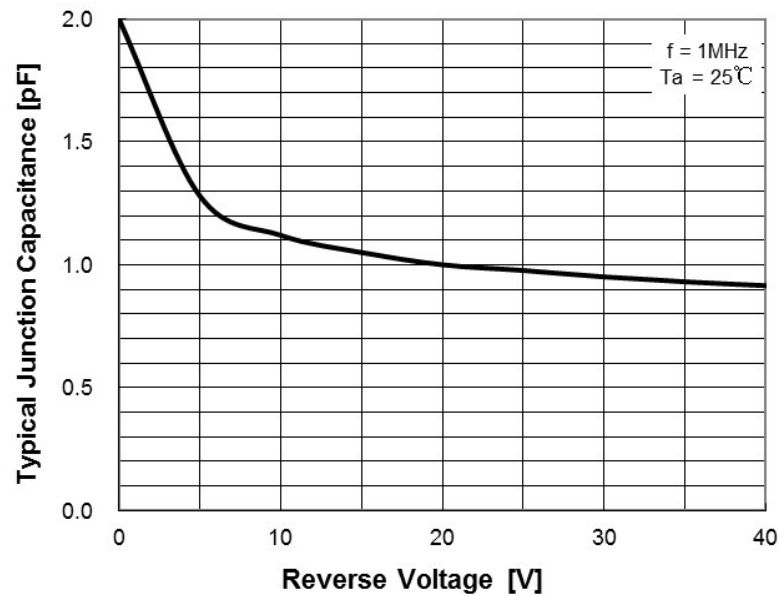
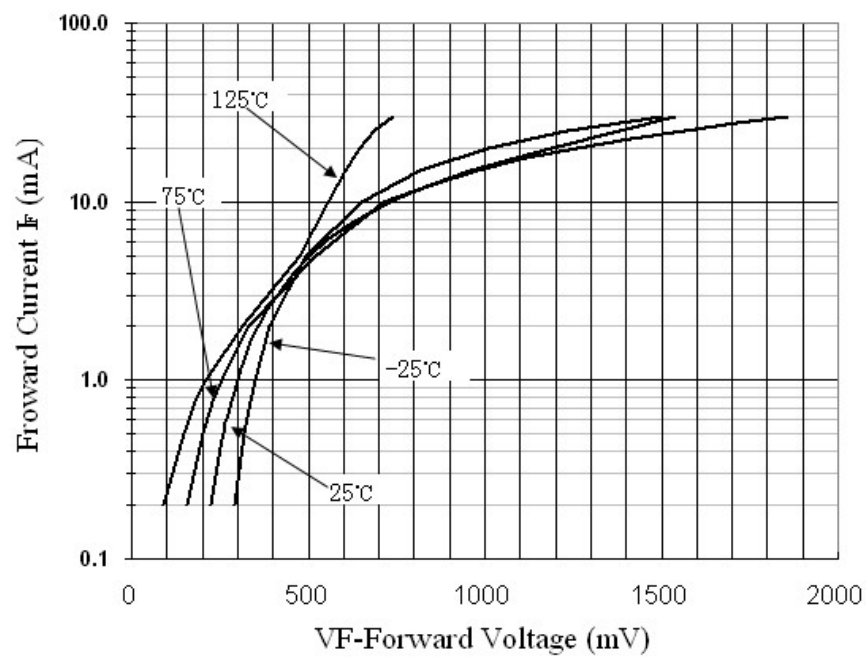
Absolute Maximum Ratings $T_A = 25^\circ\text{C}$ unless otherwise noted

Symbol	Parameter	Value	Units
P_D	Power Dissipation	150	mW
T_{STG}	Storage Temperature Range	-55 to +125	°C
T_J	Operating Junction Temperature	+125	°C
V_{RM}	Peak Reverse Voltage	40	V
V_R	DC Reverse Voltage	30	V
$I_{F(AV)}$	Average Forward Current	30	mA
I_{FSM}	Peak Forward Surge Current (At 8.3ms single half sine-wave)	200	mA

These ratings are limiting values above which the serviceability of the diode may be impaired.

Electrical Characteristics $T_A = 25^\circ\text{C}$ unless otherwise noted

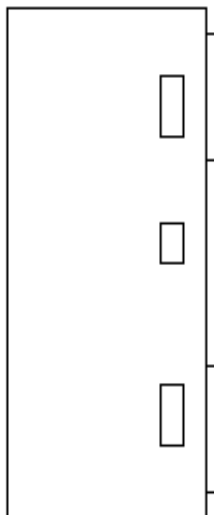
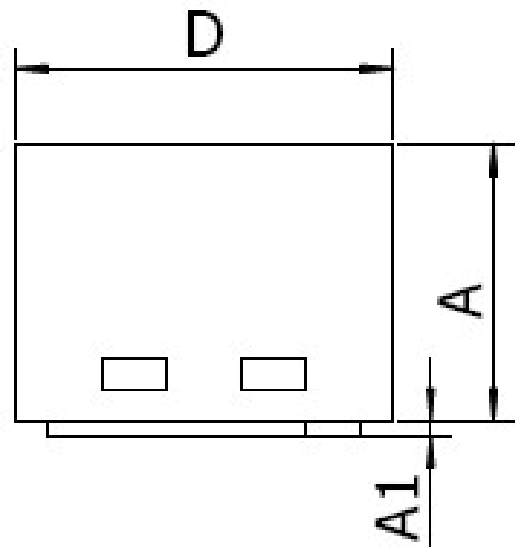
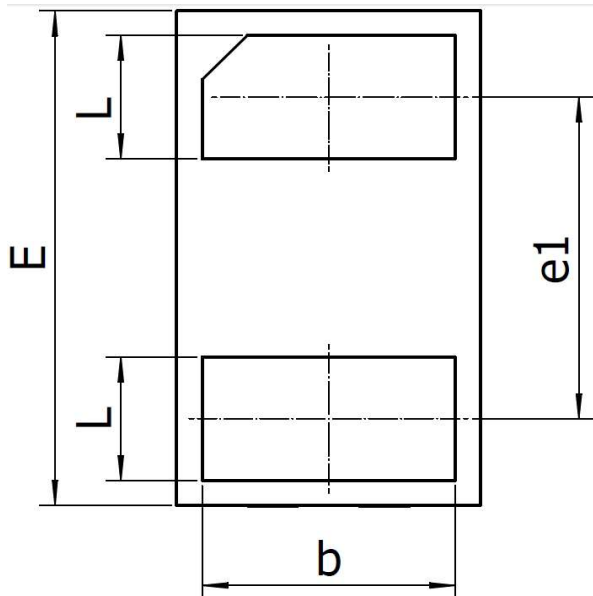
Symbol	Parameter	Test Condition	Limits		Unit
			Min	Max	
V_F	Forward Voltage	$I_F=1\text{mA}$		0.37	Volts
I_R	Reverse Leakage Current	$V_R=30\text{V}$		0.5	μA
C	Capacitance	$V_R=0\text{V}, f=1\text{MHz}$	Typ. 2		pF

**TYPICAL CHARACTERISTIC CURVES****Total Capacitance****Forward Voltage vs Ambient Temperature**



Outline Drawing

SOD-882(e)



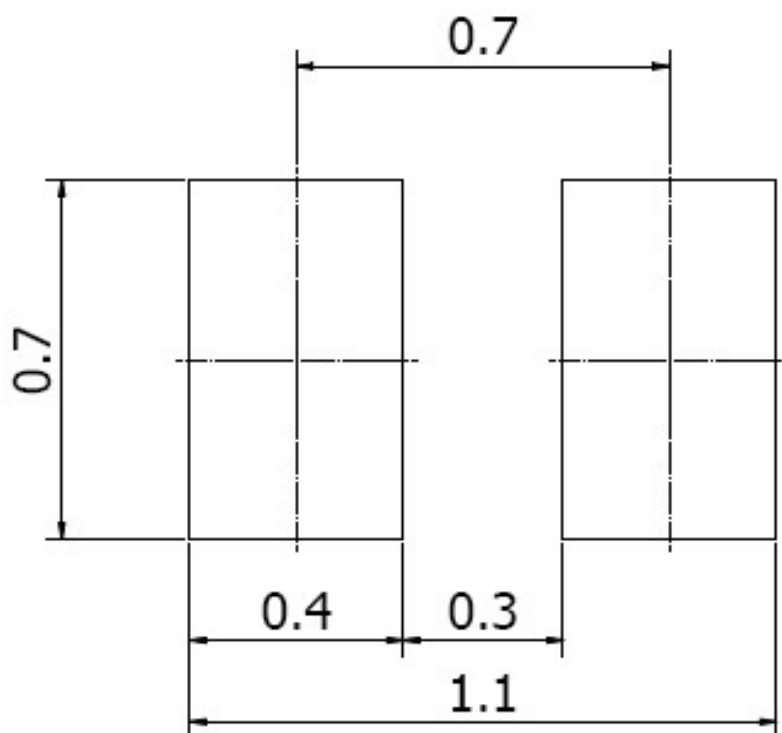
DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	0.46	0.50	0.018	0.020
A1	---	0.03	---	0.001
b	0.45	0.55	0.018	0.022
D	0.55	0.65	0.022	0.026
E	0.95	1.05	0.037	0.041
e1	Typ. 0.65		Typ. 0.026	
L	0.20	0.30	0.008	0.012

Rev.A



Suggested Soldering Pad Layout

SOD-882(e)



Rev.A



Ordering Information:

Device PN	Marking ⁽⁴⁾	Packing
SCS751BS-40-T ⁽¹⁾ H ⁽²⁾ - WS ⁽³⁾	5	Tape&Reel: 10 Kpcs/Reel

Note: (1) Packing code, Tape & Reel Packing

(2) Packing code suffix "G" for RoHS product : Packing code Suffix "H" for halogen free product. All materials and products supplied comply with the U.S. Toxic Substances Control Act statement, PBT Chemicals.

(3) Willas brand abbreviation, Label Type does not display.

(4) There may be additional marking, which relates to the lot trace code information (data code and vendor code), the logo or the environmental category on the device.

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