

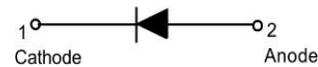
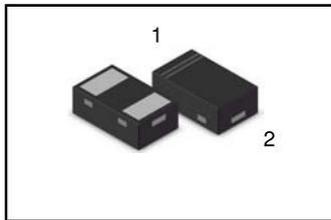
### Features

- Average forward current:  $I_{F(AV)} \leq 1.0A$
- Reverse voltage:  $V_R \leq 40V$
- Low forward voltage:  $V_F \leq 0.6V @1A$
- Low reverse current:  $I_R \leq 30\mu A @40V$
- Leadless ultra small SMD plastic package
- We declare that the material of product compliance with RoHS requirements and Halogen Free

### Applications

- Low voltage rectification
- High efficiency DC-to-DC conversion
- Switch mode power supply
- Low power consumption applications
- Ultra high-speed switching
- LED backlight for mobile application

SOD882 (0402)



Marking: 4A

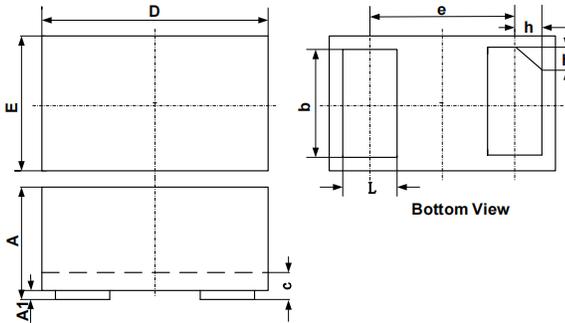
**Absolute Maximum Ratings** ( $T_{amb}=25^{\circ}C$  unless otherwise specified)

Parameter	Symbol	Limits	Unit
Reverse voltage(DC)	$V_R$	40	V
Average rectified forward current	$I_O$	1	A
Peak forward surge current	$I_{FSM}$	400	mA
Junction temperature	$T_j$	125	$^{\circ}C$
Storage Temperature Range	$T_{STG}$	-40~+125	$^{\circ}C$

**Electrical Characteristics** ( $T_A=25^{\circ}C$  unless otherwise specified)

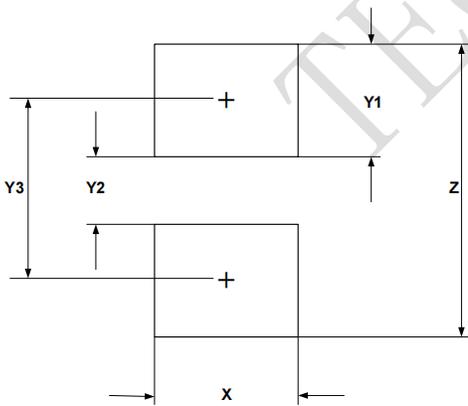
Parameter	Symbol	Min.	Max.	Unit	Conditions
Forward voltage	$V_F$	-	0.4	V	$I_F=100mA$
		-	0.6	V	$I_F=1A$
Reverse current	$I_R$	-	30	$\mu A$	$V_R=40V$

## Outline Drawing - SOD882



SYM	DIMENSIONS					
	MILLIMETERS			INCHES		
	MIN	NOM	MAX	MIN	NOM	MAX
A	0.45	0.50	0.55	0.018	0.020	0.022
A1	0.00	0.02	0.05	0.000	0.001	0.002
b	0.45	0.50	0.55	0.018	0.020	0.022
c	0.12	0.15	0.18	0.005	0.006	0.007
D	0.95	1.00	1.05	0.037	0.039	0.041
e	0.65 BSC			0.026 BSC		
E	0.55	0.60	0.65	0.022	0.024	0.026
L	0.20	0.25	0.30	0.008	0.010	0.012
h	0.07	0.12	0.17	0.003	0.005	0.007

## Land Pattern - SOD882



SYM	DIMENSIONS	
	MILLIMETERS	INCHES
X	0.60	0.024
Y1	0.50	0.020
Y2	0.30	0.012
Y3	0.80	0.032
Z	1.30	0.052