

## SOD-882 Plastic Package Fast Switching Diode

Green Product



SOD882 Package



### 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	$^\circ\text{C}$
$T_J$	Operating Junction Temperature	+125	$^\circ\text{C}$
$V_{RM}$	Peak Reverse Voltage	90	V
$V_R$	DC Reverse Voltage	80	V
$I_{FM}$	Peak Forward Current	225	mA
$I_{surge}$	Surge Forward Current (Pulse Width=1s)	500	mA

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

### Specification Features:

- § High Speed Switching
- § Small Surface Mounting Type (DFN1006)
- § RoHS Compliant
- § Green EMC
- § Matte Tin(Sn) Lead Finish
- § Band Indicates Cathode
- § Weight: approx. 0.001g

### DEVICE MARKING CODES:

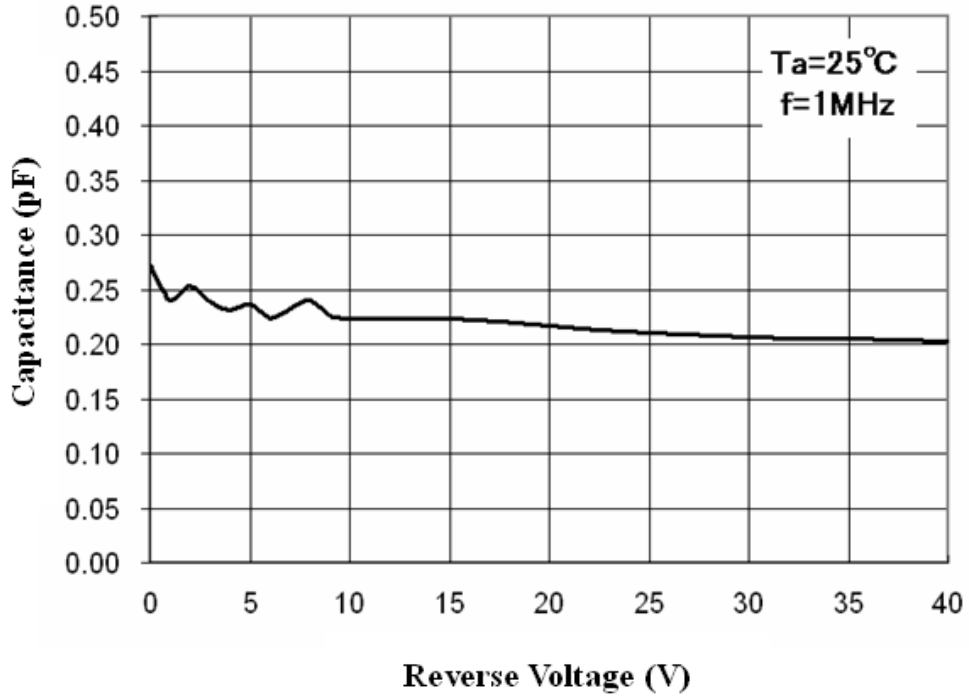
Device Type	Marking	Shipping
1SS400BS	3	10,000/Tape & Reel

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

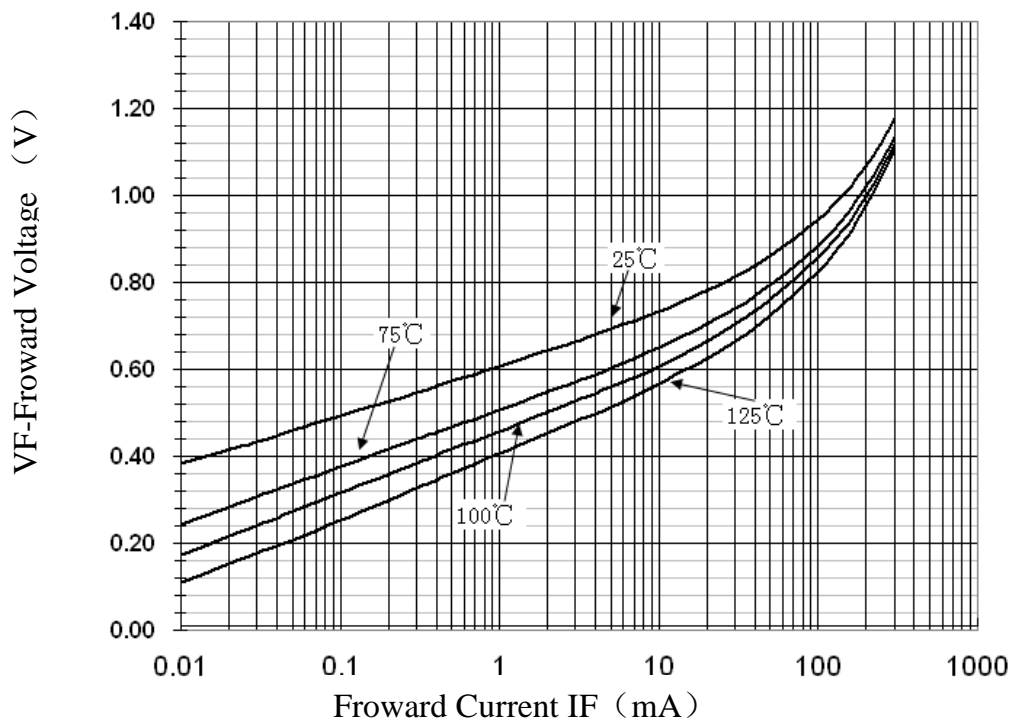
Symbol	Parameter	Test Condition	Limits		Unit
			Min	Max	
$V_F$	Forward Voltage	$I_F=100\text{mA}$		1.2	Volts
$I_R$	Reverse Current	$V_R=80\text{V}$		0.1	$\mu\text{A}$
$C_T$	Capacitance between terminals	$V_R=0.5\text{V}$ , $f=1\text{MHz}$		4	pF
$t_{rr}$	Forward Voltage	$V_R=6\text{V}$ , $I_F=10\text{mA}$ , $R_L=100\Omega$		4	nS

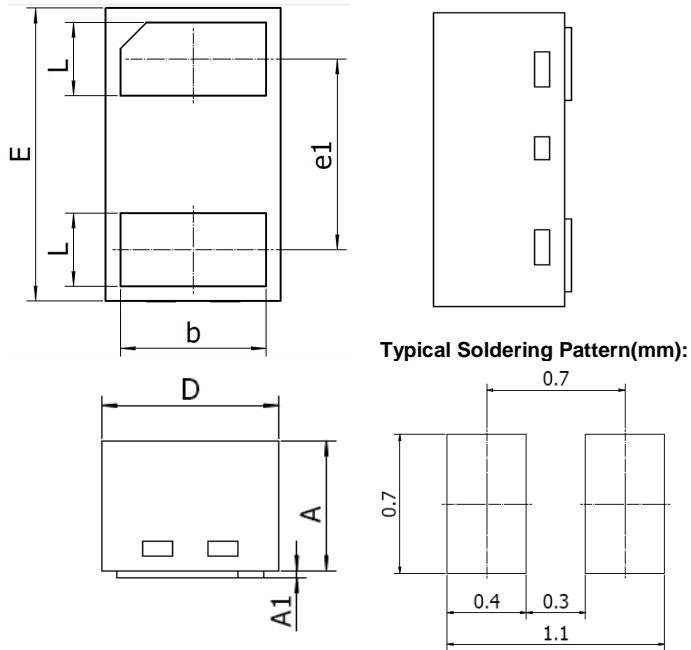
## Typical Performance Characteristics

Total Capacitance



Forward Voltage vs Ambient Temperature



**SOD882 Package Outline**


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

**NOTICE**

The information presented in this document is for reference only. Tak Cheong reserves the right to make changes without notice for the specification of the products displayed herein.

The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with equipment or devices which require high level of reliability and the malfunction of which would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), Tak Cheong Semiconductor Co., Ltd., or anyone on its behalf, assumes no responsibility or liability for any damages resulting from such improper use of sale.

This publication supersedes & replaces all information previously supplied. For additional information, please visit our website <http://www.takcheong.com>, or consult your nearest Tak Cheong's sales office for further assistance.