

# Switching Diode

**• Applications**

High speed switching

**• Features**

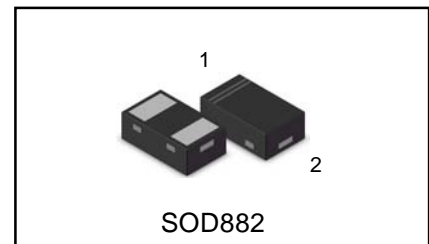
- 1) Extremely small surface mounting type.
- 2) High Speed.
- 3) High reliability.

**• Construction**

Silicon epitaxial planar

- We declare that the material of product compliance with RoHS requirements.
- S- Prefix for Automotive and Other Applications Requiring Unique Site and Control Change Requirements; AEC-Q101 Qualified and PPAP Capable.

**L1SS400BST5G**  
**S-L1SS400BST5G**



**Ordering information**

Device	Marking	Shipping
L1SS400BST1G	3	5000/Tape&Reel
L1SS400BST3G	3	8000/Tape&Reel
L1SS400BST5G	3	10000/Tape&Reel

**Absolute maximum ratings (Ta = 25°C)**

Parameter	Symbol	Limits	Unit
Peak reverse voltage	$V_{RM}$	90	V
DC reverse voltage	$V_R$	80	V
Peak forward current	$I_{FM}$	225	mA
Mean rectifying current	$I_O$	100	mA
Surge current (1s)	$I_{surge}$	500	mA
Junction temperature	$T_J$	125	°C
Storage temperature	$T_{stg}$	- 55 ~ +125	°C

**Electrical characteristics (Ta = 25°C)**

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	$V_F$	-	-	1.2	V	$I_F=100mA$
Reverse current	$I_R$	-	-	0.1	$\mu A$	$V_R=80V$
Capacitance between terminals	$C_T$	-	0.72	3.0	pF	$V_R=0.5V, f=1MHz$
Reverse recovery time	$t_{rr}$	-	-	4	ns	$V_R=6V, I_F=10mA, R_L=100\Omega$

L1SS400BST5G,S-L1SS400BST5G

ELECTRICAL CHARACTERISTIC CURVES  
(Ta = 25°C)

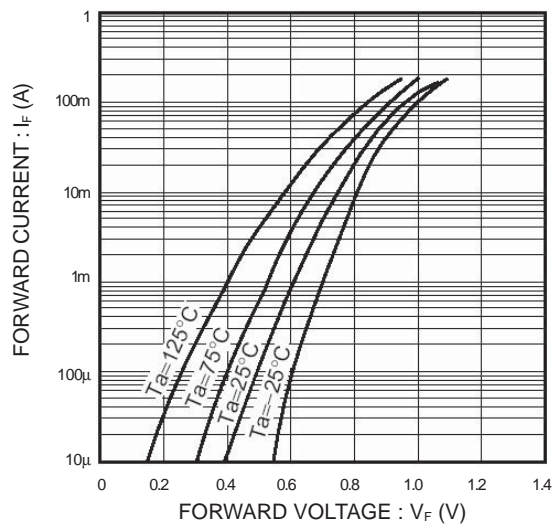


Fig.1 Forward characteristics

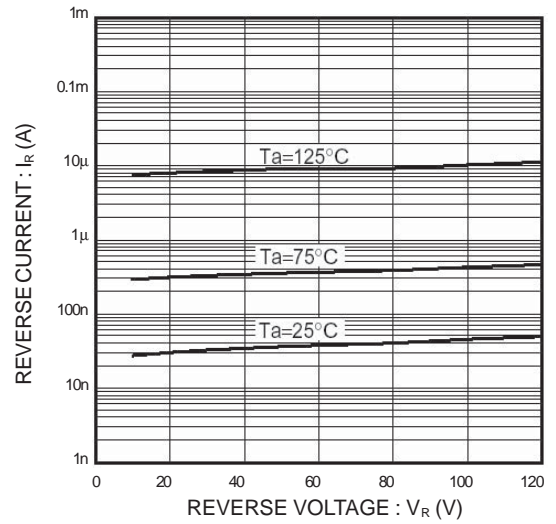


Fig.2 Reverse characteristics

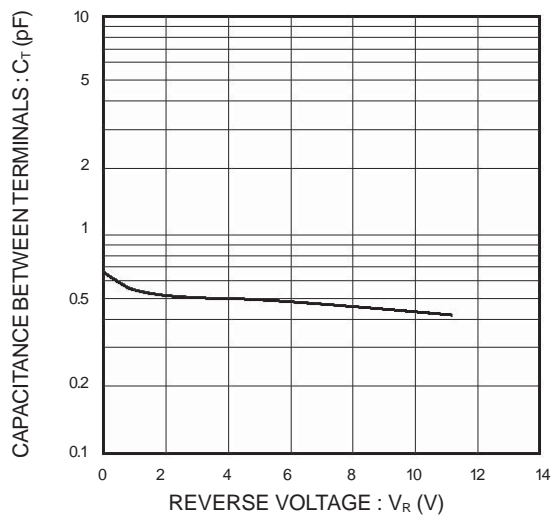
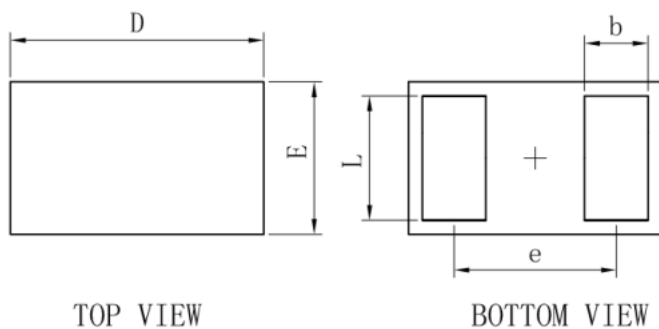


Fig.3 Capacitance between terminals

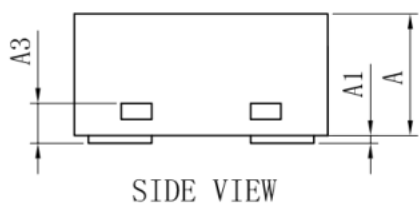
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OUTLINE AND DIMENSIONS

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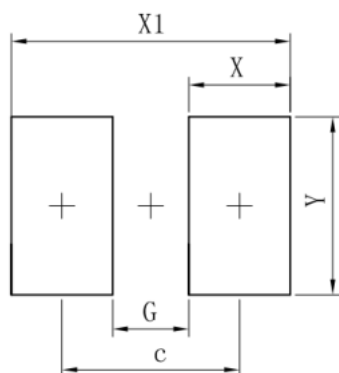


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Dim	Min	Typ	Max
D	0.95	1.00	1.05
E	0.55	0.60	0.65
e	-	0.64	-
L	0.44	0.49	0.54
b	0.20	0.25	0.30
A	0.43	0.48	0.53
A1	0	-	0.05
A3	0.127REF.		
All Dimensions in mm			



SOLDERING FOOTPRINT

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Dimensions	(mm)
c	0.70
G	0.30
X	0.40
X1	1.10
Y	0.70