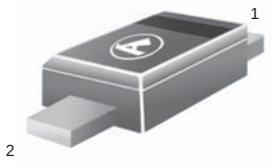
Switching diode

L1SS400CST5G
S-L1SS400CST5G

- **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.



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ORDRING INFORMATION

Device	Marking	Shipping
L1SS400CST5G S-L1SS400CST5G	3	8000/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	Tj	125	℃
Storage temperature	T_{stg}	– 55 ~ +125	℃

Ω

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	μA	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

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ELECTRICAL CHARACTERISTIC CURVES

(Ta = 25°C)

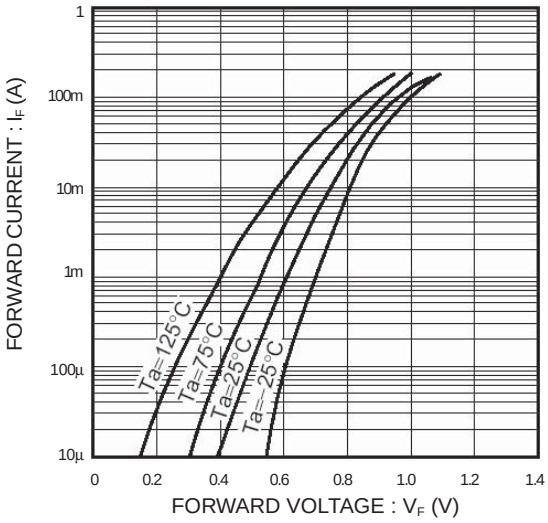

Fig.1 Forward characteristics

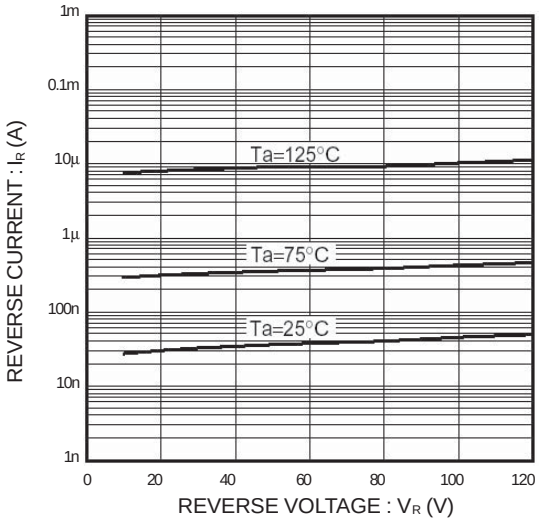

Fig.2 Reverse characteristics

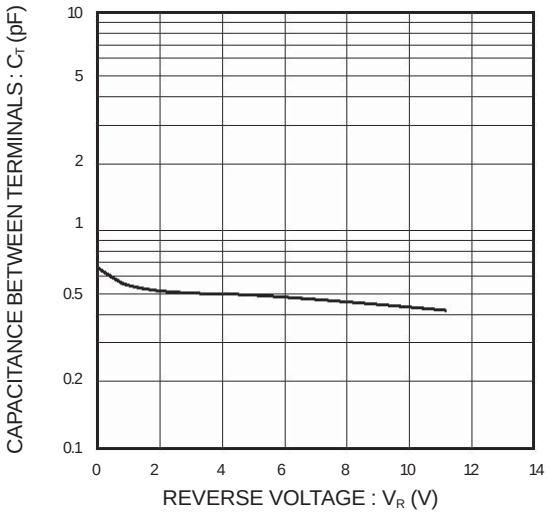

Fig.3 Capacitance between terminals

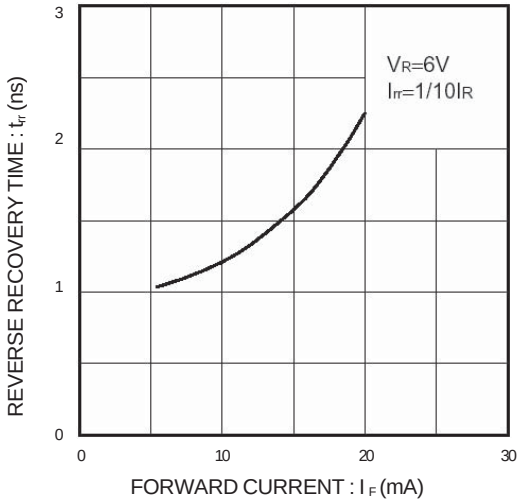

Fig.4 Reverse recovery time characteristics

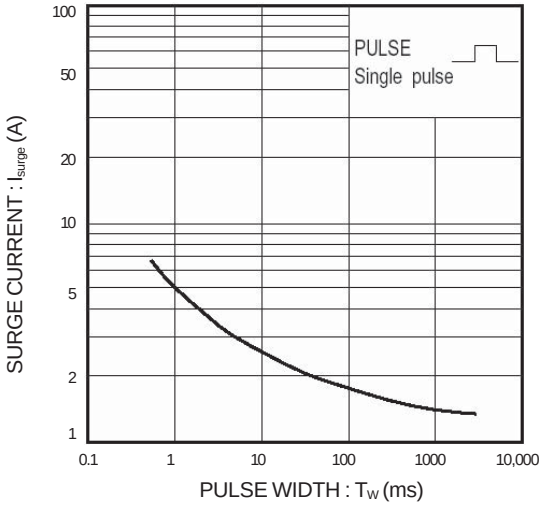

Fig.5 Surge current characteristics

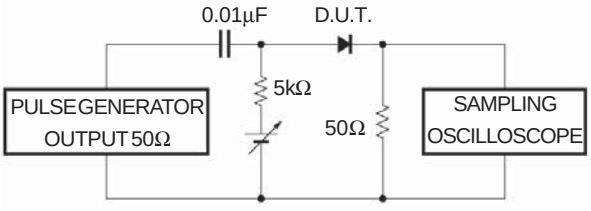

Fig.6 Reverse recovery time (t_{rr}) measurement circuit

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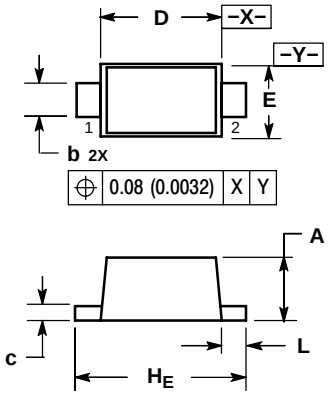
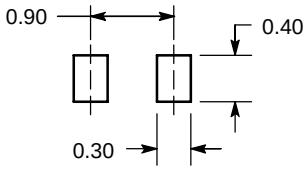


NOTES:
1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
2. CONTROLLING DIMENSION: MILLIMETERS.
3. MAXIMUM LEAD THICKNESS INCLUDES LEAD FINISH THICKNESS. MINIMUM LEAD THICKNESS IS THE MINIMUM THICKNESS OF BASE MATERIAL.

	MILLIMETERS			INCHES		
DIM	MIN	NOM	MAX	MIN	NOM	MAX
A	0.34	0.37	0.40	0.013	0.015	0.016
b	0.15	0.20	0.25	0.006	0.008	0.010
c	0.07	0.12	0.17	0.003	0.005	0.007
D	0.75	0.80	0.85	0.030	0.031	0.033
E	0.55	0.60	0.65	0.022	0.024	0.026
H_E	0.95	1.00	1.05	0.037	0.039	0.041
L	0.05	0.10	0.15	0.002	0.004	0.006

SOLDERING FOOTPRINT*



DIMENSIONS: MILLIMETERS