

# Switching diode

• Applications

High speed switching

• Features

- 1) Small surface mounting type.
- 2) High Speed.(trr =1.2ns Typ.)
- 3) High reliability with high surge current handling capability.
- 4) We declare that the material of product compliance with RoHS requirements.

• Construction

Silicon epitaxial planar

• Device Marking and Ordering Information

Device	Marking	Shipping
L1SS355T1G	5D	3000/Tape&Reel
L1SS355T3G	5D	10000/Tape&Reel

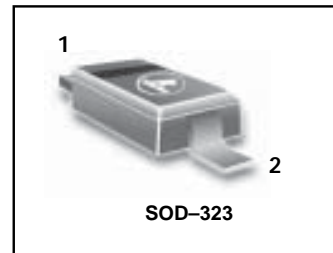
• Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Peak reverse voltage	V <sub>RM</sub>	90	V
DC reverse voltage	V <sub>R</sub>	80	V
Peak forward current	I <sub>FM</sub>	225	mA
Mean rectifying current	I <sub>O</sub>	100	mA
Surge current (1s)	I <sub>surge</sub>	500	mA
Junction temperature	T <sub>j</sub>	125	°C
Storage temperature	T <sub>stg</sub>	-55~+125	°C

• Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V <sub>F</sub>	-	-	1.2	V	I <sub>F</sub> =100mA
Reverse current	I <sub>R</sub>	-	-	0.1	μA	V <sub>R</sub> =80V
Capacitance between terminals	C <sub>T</sub>	-	-	3.0	pF	V <sub>R</sub> =0.5V, f=1MHz
Reverse recovery time	t <sub>rr</sub>	-	-	4	ns	V <sub>R</sub> =6V, I <sub>F</sub> =10mA, R <sub>L</sub> =100Ω

**L1SS355T1G**



# L1SS355T1G

• Electrical characteristic curves (Ta=25°C)

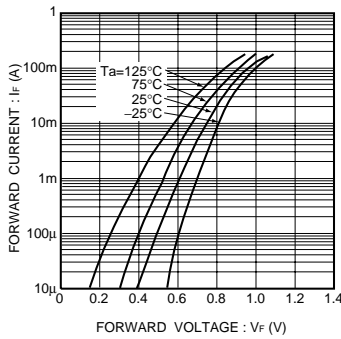


Fig.1 Forward characteristics

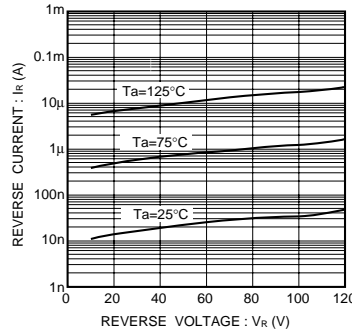


Fig.2 Reverse characteristics

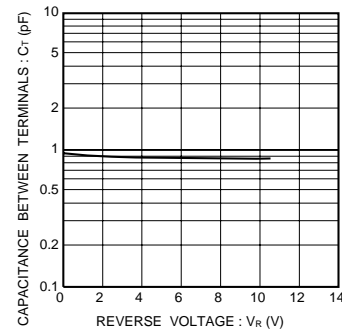


Fig.3 Capacitance between terminals characteristics

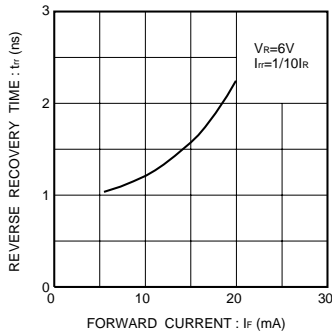


Fig.4 Reverse recovery time characteristics

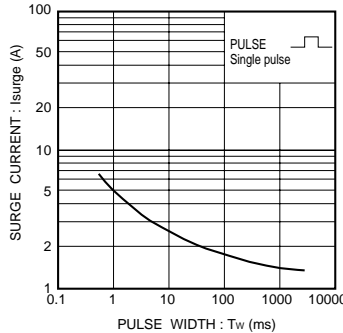


Fig.5 Surge current characteristics

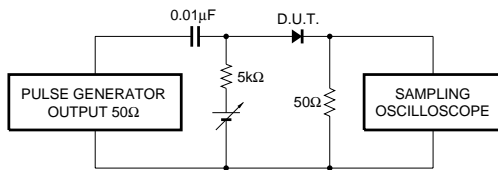
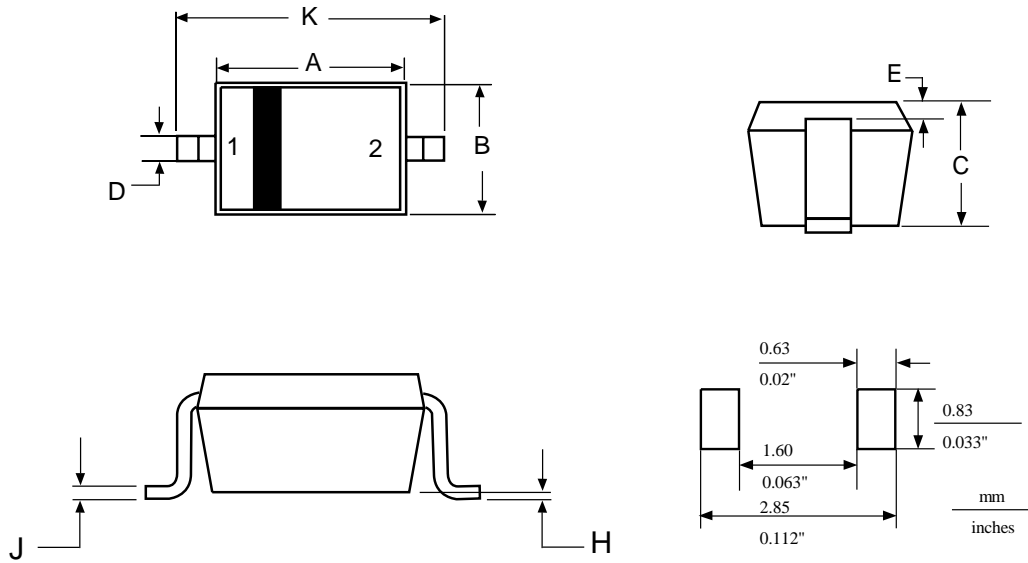


Fig.6 Reverse recovery time ( $t_r$ ) measurement circuit

# L1SS355T1G

## SOD-323



### NOTES:

1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
2. CONTROLLING DIMENSION: MILLIMETERS

DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	1.60	1.80	0.063	0.071
B	1.15	1.35	0.045	0.053
C	0.80	1.00	0.031	0.039
D	0.25	0.40	0.010	0.016
E	0.15 REF		0.006 REF	
H	0.00	0.10	0.000	0.004
J	0.089	0.177	0.0035	0.0070
K	2.30	2.70	0.091	0.106

PIN:1:CATHODE  
2:ANODE