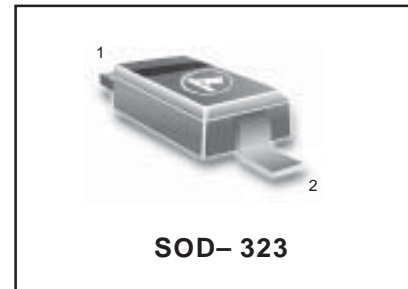


Band Switching Diode

- **Applications**
High frequency switching
- **Features**
 - 1) Small surface mounting type.
 - 2) High reliability.
 - 3) We declare that the material of product compliance with RoHS requirements.
- **Construction**
Silicon epitaxial planar
- **S- Prefix for Automotive and Other Applications Requiring Unique Site and Control Change Requirements; AEC-Q101 Qualified and PPAP Capable.**

L1SS356T1G
S-L1SS356T1G



Ordering Information

Device	Marking	Shipping
L1SS356T1G S-L1SS356T1G	B	3000/Tape&Reel
L1SS356T3G S-L1SS356T3G	B	10000/Tape&Reel

Absolute maximum ratings ($T_A=25^{\circ}\text{C}$)

Parameter	Symbol	Limits	Unit
DC reverse voltage	V_R	35	V
DC forward current	I_F	100	mA
Junction temperature	T_j	125	$^{\circ}\text{C}$
Storage temperature	T_{stg}	-55~+125	$^{\circ}\text{C}$

Electrical characteristics ($T_A=25^{\circ}\text{C}$)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	—	—	1.0	V	$I_F=10\text{mA}$
Reverse current	I_R	—	—	10	nA	$V_R=25\text{V}$
Capacitance between terminals	C_T	—	—	1.2	pF	$V_R=6\text{V}$, $f=1\text{MHz}$
Forward operating resistance	r_F	—	—	0.9	Ω	$I_F=2\text{mA}$, $f=100\text{MHz}$

Electrical characteristic curves

($T_A=25^\circ\text{C}$)

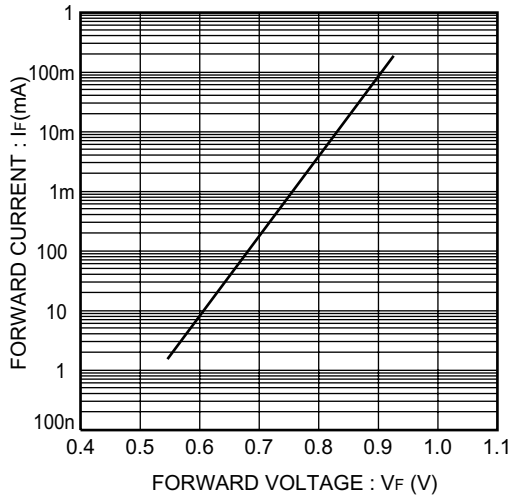


Fig. 1 Forward characteristics

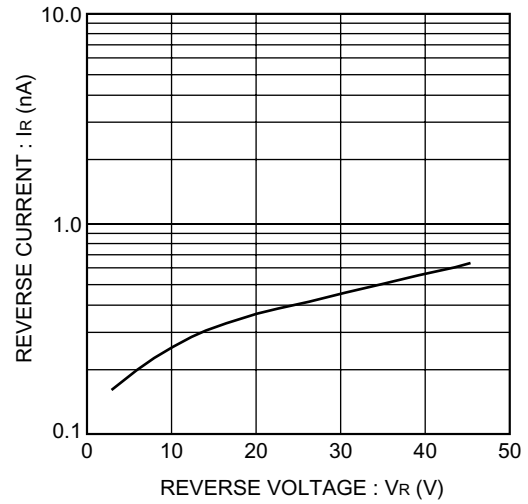


Fig. 2 Reverse characteristics

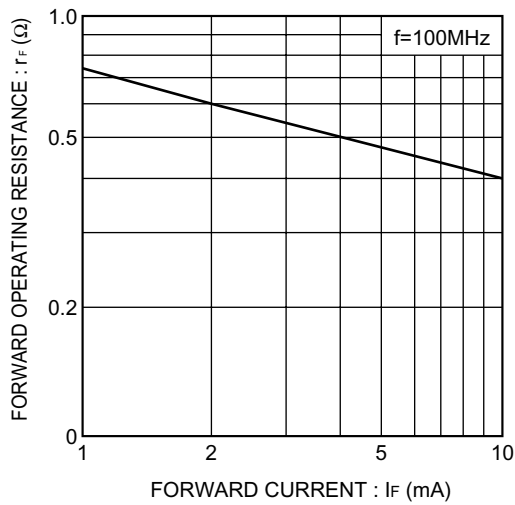


Fig. 4 Forward operating resistance characteristics

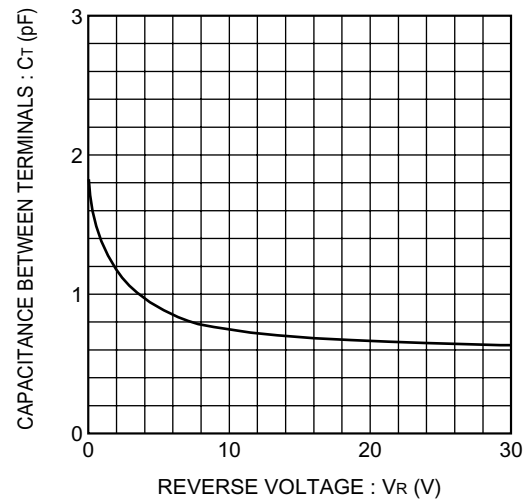
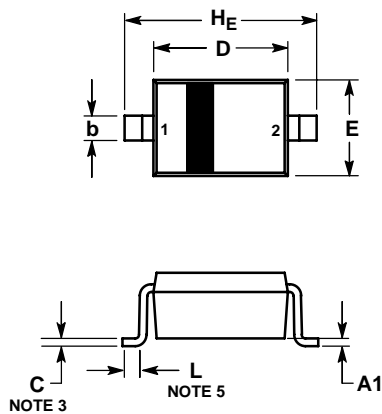


Fig. 3 Capacitance between terminals characteristics

L1SS356T1G,S-L1SS356T1G
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NOTES:

1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
2. CONTROLLING DIMENSION: MILLIMETERS.
3. LEAD THICKNESS SPECIFIED PER L/F DRAWING WITH SOLDER PLATING.
4. DIMENSIONS A AND B DO NOT INCLUDE MOLD FLASH, PROTRUSIONS OR GATE BURRS.
5. DIMENSION L IS MEASURED FROM END OF RADIUS.

DIM	MILLIMETERS			INCHES		
	MIN	NOM	MAX	MIN	NOM	MAX
A	0.80	0.90	1.00	0.031	0.035	0.040
A1	0.00	0.05	0.10	0.000	0.002	0.004
A3	0.15 REF			0.006 REF		
b	0.25	0.32	0.4	0.010	0.012	0.016
C	0.089	0.12	0.177	0.003	0.005	0.007
D	1.60	1.70	1.80	0.062	0.066	0.070
E	1.15	1.25	1.35	0.045	0.049	0.053
L	0.08			0.003		
H_E	2.30	2.50	2.70	0.090	0.098	0.105

SOLDERING FOOTPRINT*
