

# Schottky barrier diode

## LRB550V-30T1G

### ●Applications

General rectification

### ●Features

- 1) Small surface mounting type.
- 2) Low  $V_F$ , Low  $I_R$
- 3) High reliability.
- 4) We declare that the material of product compliance with RoHS requirements.
- 5) S- Prefix for Automotive and Other Applications Requiring Unique Site and Control Change Requirements; AEC-Q101 Qualified and PPAP Capable.

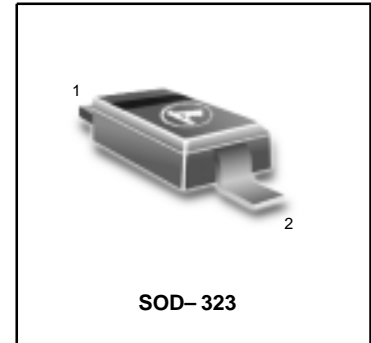
### ●Construction

Silicon epitaxial planar

### ●Device Marking and Ordering Information

Device	Marking	Shipping
LRB550V-30T1G S-LRB550V-30T1G	SD	3000/Tape&Reel
LRB550V-30T3G S-LRB550V-30T3G	SD	10000/Tape&Reel

LRB550V-30T1G  
S-LRB550V-30T1G



### ●Absolute maximum ratings ( $T_a = 25^\circ\text{C}$ )

Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	$V_{RM}$	30	V
Reverse voltage (DC)	$V_R$	30	V
Average rectified forward current	$I_o$	0.5	A
Forward current surge peak	$I_{FSM}$	2	A
Junction temperature	$T_j$	150	$^\circ\text{C}$
Storage temperature	$T_{stg}$	-40 to +150	$^\circ\text{C}$

\* 60Hz for 1  $\varnothing$

### ●Electrical characteristics ( $T_a = 25^\circ\text{C}$ )

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	$V_{F1}$	-	-	0.39	V	$I_F=100\text{mA}$
	$V_{F2}$	-	-	0.60	V	$I_F=700\text{mA}$
Reverse current	$I_R$	-	-	30	$\mu\text{A}$	$V_R=10\text{V}$

# LRB550V-30T1G , S-LRB550V-30T1G

● Electrical characteristic curves (Ta = 25°C)

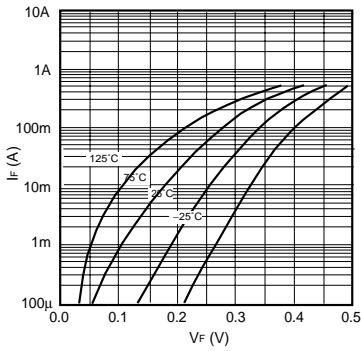


Fig.1 Forward characteristics

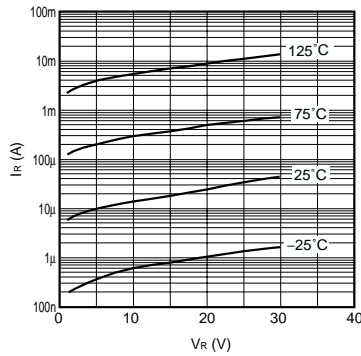


Fig.2 Reverse characteristics

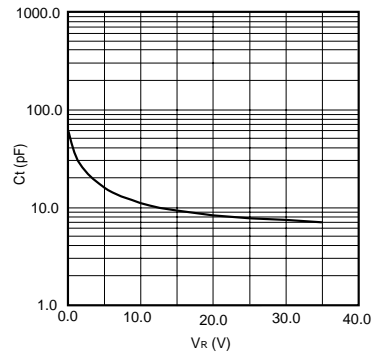
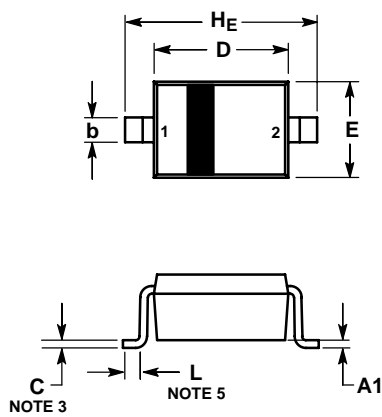


Fig.3 Capacitance between terminals characteristics

# LRB550V-30T1G , S-LRB550V-30T1G

## SOD-323


**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			
HE	2.30	2.50	2.70	0.090	0.098	0.105

**SOLDERING FOOTPRINT\***
