

# Schottky barrier diode

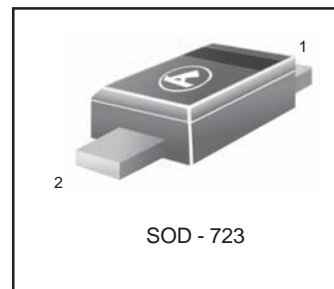
**LRB521G-30T1G**  
**S-LRB521G-30T1G**

**●Application**

Rectifying small power

**●Features**

- 1) Ultra small mold type.
- 2) Low  $V_F$
- 3) High reliability
- 4) S- Prefix for Automotive and Other Applications Requiring Unique Site and Control Change Requirements; AEC-Q101 Qualified and PPAP Capable.



**●Construction**

Silicon epitaxial planer

- We declare that the material of product compliance with RoHS requirements.
- We declare that the material of product is Halogen Free (Green Epoxy Compound).



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

Parameter	Symbol	Limits	Unit
Reverse voltage (DC)	$V_R$	30	V
Average rectified forward current	$I_o$	100	mA
Forward current surge peak (60Hz·1cyc)	$I_{FSM}$	500	mA
Junction temperature	$T_j$	125	$^{\circ}\text{C}$
Storage temperature	$T_{stg}$	-40 to +125	$^{\circ}\text{C}$

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

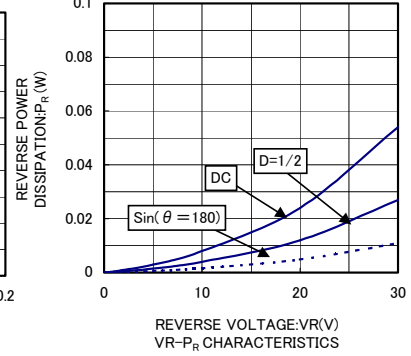
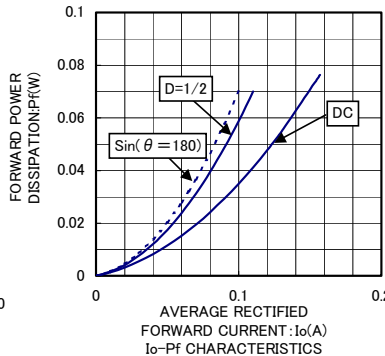
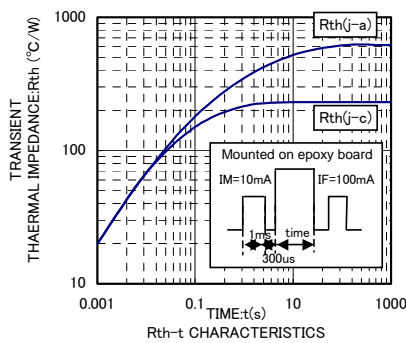
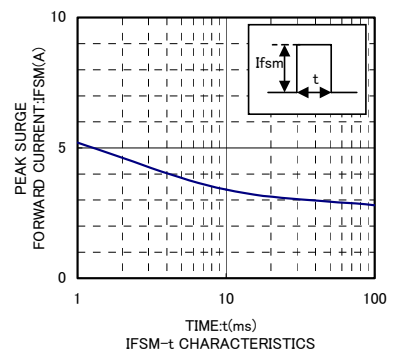
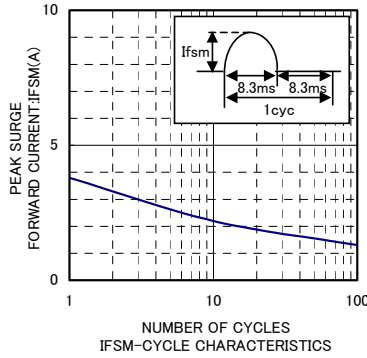
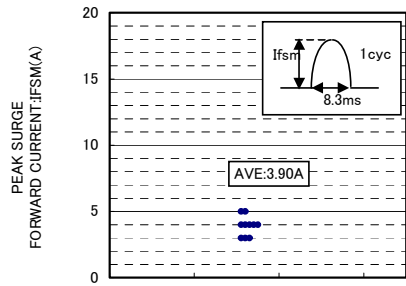
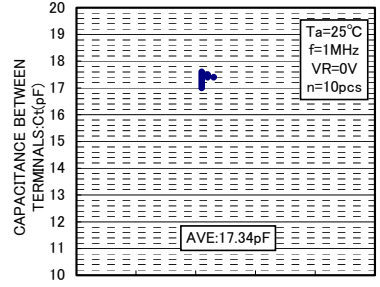
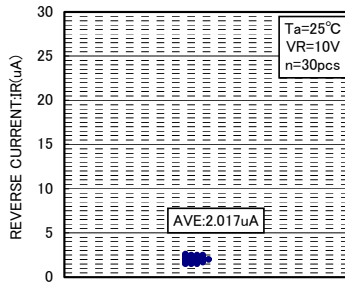
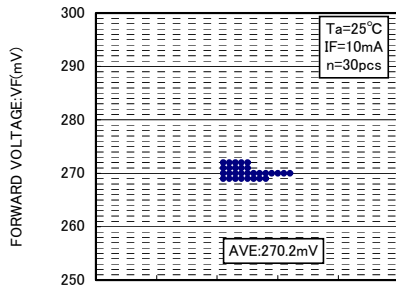
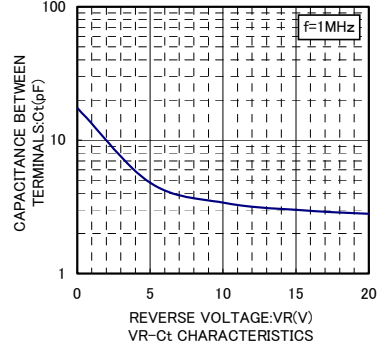
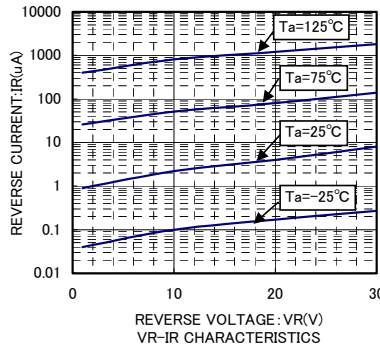
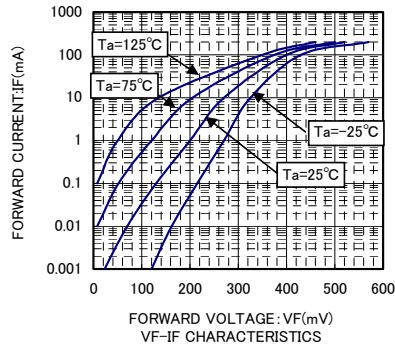
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	$V_F$	-	-	0.35	V	$I_F=10\text{mA}$
Reverse current	$I_R$	-	-	10	$\mu\text{A}$	$V_R=10\text{V}$

**●Ordering Information**

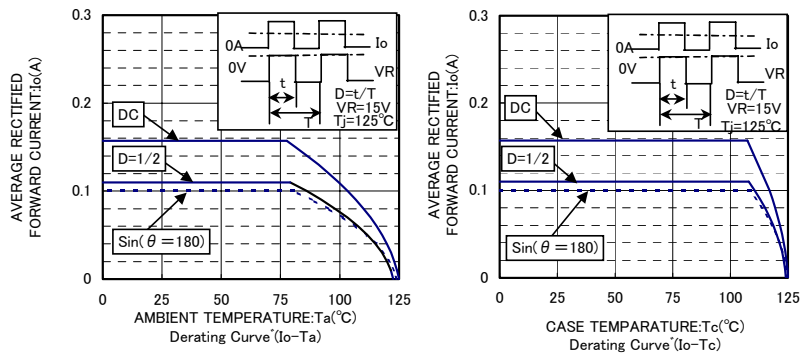
Device	Marking	Shipping
LRB521G-30T1G	F	4000/Tape&Reel

# LRB521G-30T1G , S-LRB521G-30T1G

## Electrical characteristic curves (Ta=25°C)

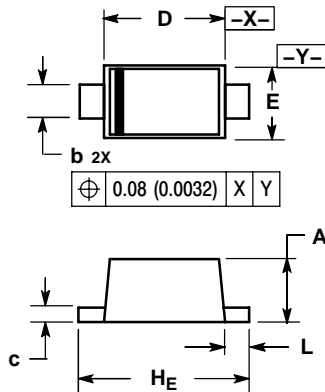


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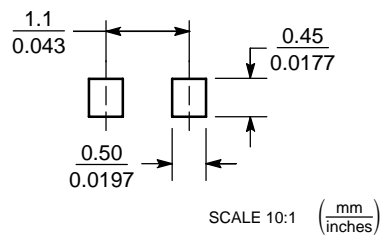
SOD-723



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

DIM	MILLIMETERS			INCHES		
	MIN	NOM	MAX	MIN	NOM	MAX
A	0.49	0.52	0.55	0.019	0.020	0.022
b	0.25	0.28	0.32	0.0098	0.011	0.013
c	0.08	0.12	0.15	0.0032	0.0047	0.0059
D	0.95	1.00	1.05	0.037	0.039	0.041
E	0.55	0.60	0.65	0.022	0.024	0.026
HE	1.35	1.40	1.45	0.053	0.055	0.057
L	0.15	0.20	0.25	0.006	0.0079	0.010

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