

# SCHOTTKY BARRIER DIODE

## ●Applications

Low current rectification and high speed switching

## ●Features

Extremely small surface mounting type. (SOD523)

$I_o=200\text{mA}$  guaranteed despite the size.

Low  $V_F$ .

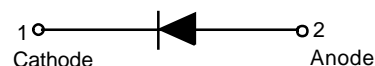
S- Prefix for Automotive and Other Applications Requiring Unique Site and Control Change Requirements; AEC-Q101 Qualified and PPAP Capable.

## ●Construction

Silicon epitaxial planar

- We declare that the material of product compliance with RoHS requirements.

**LRB521S-40T1G**  
**S-LRB521S-40T1G**



## ORDERING INFORMATION

Device	Marking	Shipping
LRB521S-40T1G S-LRB521S-40T1G	S	3000/Tape&Reel
LRB521S-40T3G S-LRB521S-40T3G	S	10000/Tape&Reel

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

Parameter	Symbol	Limits	Unit
DC reverse voltage	$V_R$	40	V
Mean rectifying current	$I_o$	200	mA
Peak forward surge current*	$I_{FSM}$	4	A
Junction temperature	$T_j$	125	$^\circ\text{C}$
Storage temperature	$T_{sg}$	-55~+125	$^\circ\text{C}$

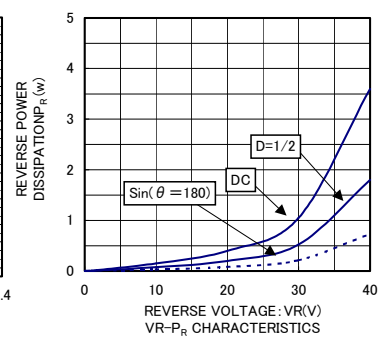
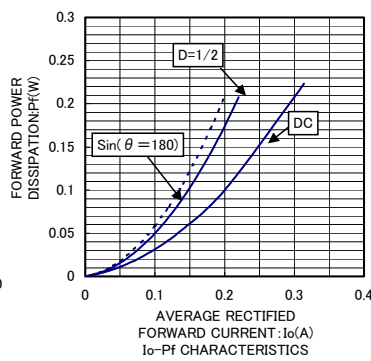
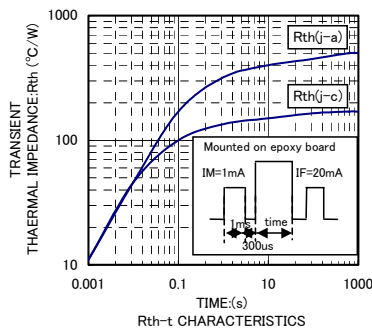
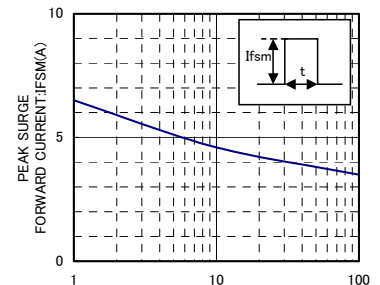
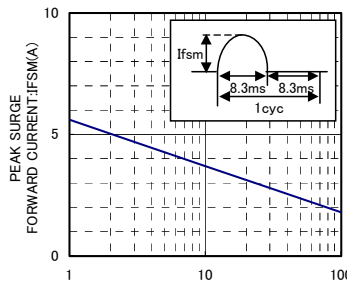
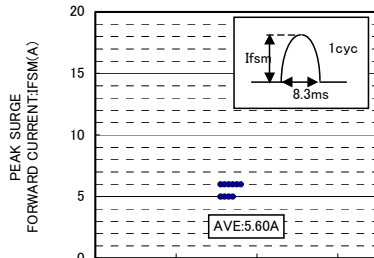
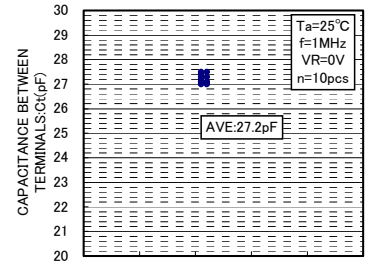
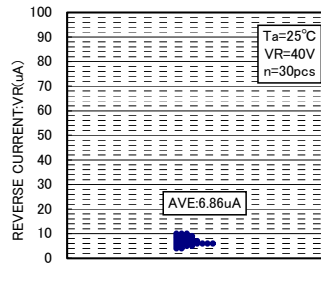
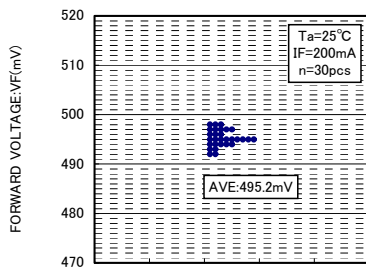
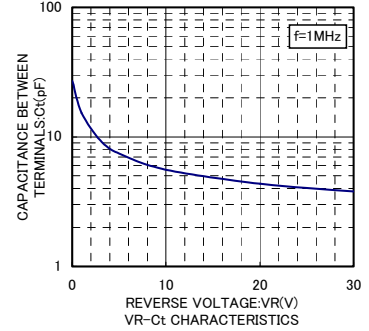
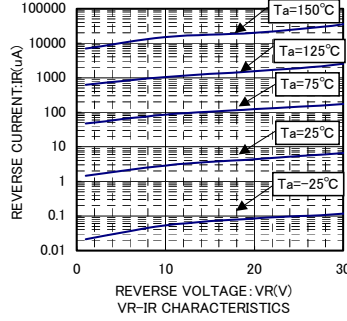
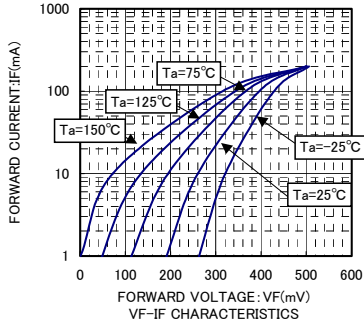
\*60Hz for 1

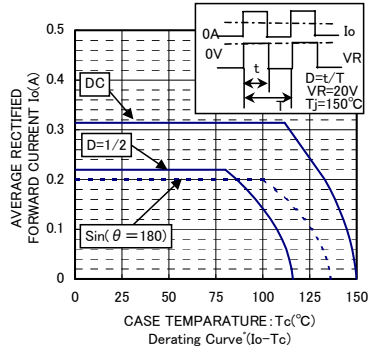
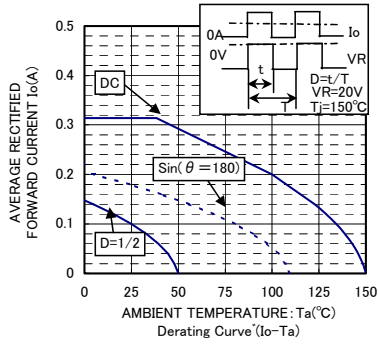
## ELECTRICAL CHARACTERISTICS ( $T_A = 25^\circ\text{C}$ )

Parameter	Symbol	Min.	Max.	Unit	Conditions
Forward voltage	$V_F$	0.16	0.30	V	$I_F=10\text{mA}$
Forward voltage	$V_F$	0.31	0.45	V	$I_F=100\text{mA}$
Forward voltage	$V_F$	0.37	0.52	V	$I_F=200\text{mA}$
Reverse current	$I_R$	-	20	$\mu\text{A}$	$V_R=10\text{V}$
Reverse current	$I_R$	-	90	$\mu\text{A}$	$V_R=40\text{V}$
ESD break down voltage	ESD	8	-	KV	$C=100\text{pF}$ $R=1.5\text{K}\ \Omega$ forward and reverse.1 time

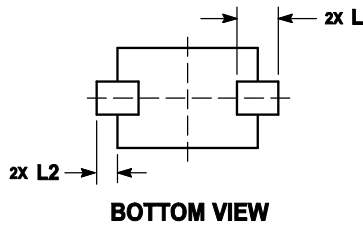
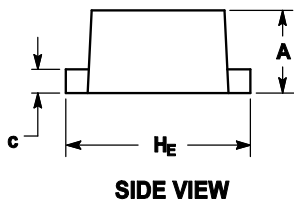
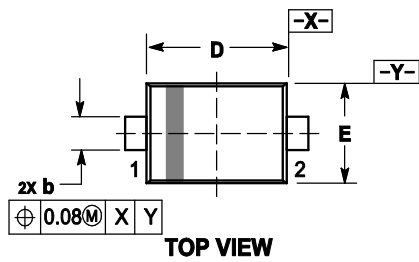
LRB521S-40T1G , S-LRB521S-40T1G

●Electrical characteristic curves



**LRB521S-40T1G , S-LRB521S-40T1G**


## OUTLINE AND DIMENSIONS

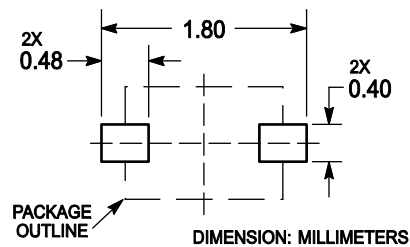


### Notes:

1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
2. CONTROLLING DIMENSION: MILLIMETERS.
3. MAXIMUM LEAD THICKNESS INCLUDES LEAD FINISH. MINIMUM LEAD THICKNESS IS THE MINIMUM THICKNESS OF BASE MATERIAL.
4. DIMENSIONS D AND E DO NOT INCLUDE MOLD FLASH, PROTRUSIONS OR GATE BURRS.

DIM	MILLIMETERS			INCHES		
	MIN	NOM	MAX	MIN	NOM	MAX
A	0.50	0.60	0.70	0.020	0.024	0.028
b	0.25	0.30	0.35	0.010	0.012	0.014
c	0.07	0.14	0.20	0.003	0.006	0.008
D	1.10	1.20	1.30	0.043	0.047	0.051
E	0.70	0.80	0.90	0.028	0.031	0.035
H <sub>E</sub>	1.50	1.60	1.70	0.059	0.063	0.067
L	0.30 REF			0.012 REF		
L <sub>2</sub>	0.15	0.20	0.25	0.006	0.008	0.010

## SOLDERING FOOTPRINT



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