

# Schottky barrier diode

## LRB751G-40T1G

### ●Applications

General rectification

### ●Features

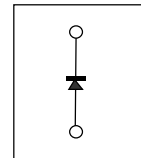
- 1) Small power mold type.  
(SOD-723)
- 2) Low  $V_F$
- 3) High reliability
- 4) Pb-Free package is available
- 5) S- Prefix for Automotive and Other Applications Requiring Unique Site and Control Change Requirements;  
AEC -Q101 Qualified and PPAP Capable.

LRB751G-40T1G  
S-LRB751G-40T1G



### ●Construction

Silicon epitaxial planar



### ●Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	$V_{RM}$	40	V
Reverse voltage (DC)	$V_R$	30	V
Average rectified forward current	$I_o$	30	mA
Forward current surge peak (60Hz·1cyc)	$I_{FSM}$	200	mA
Junction temperature	$T_j$	125	°C
Storage temperature	$T_{stg}$	-40 to +125	°C

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

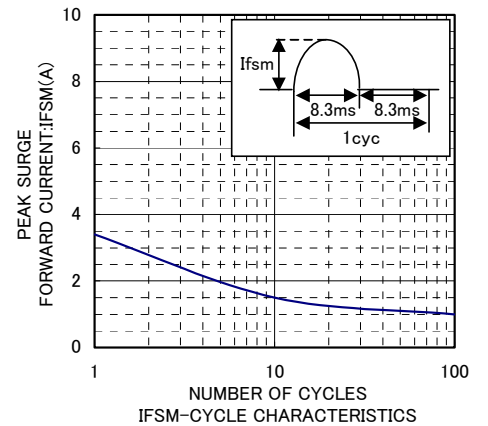
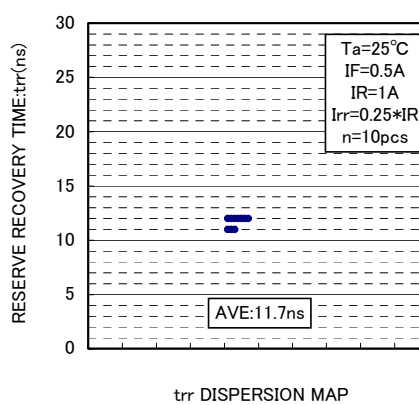
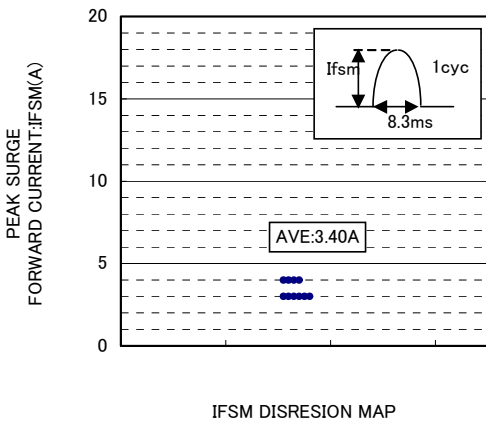
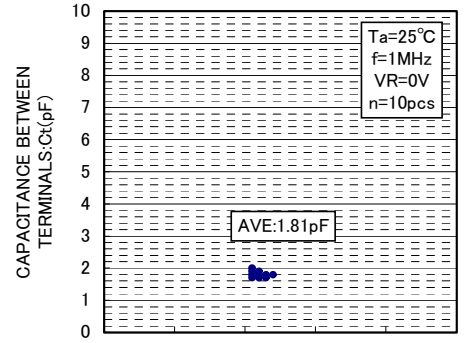
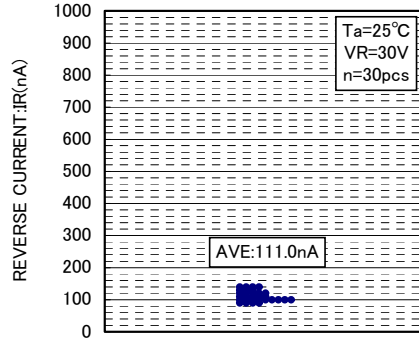
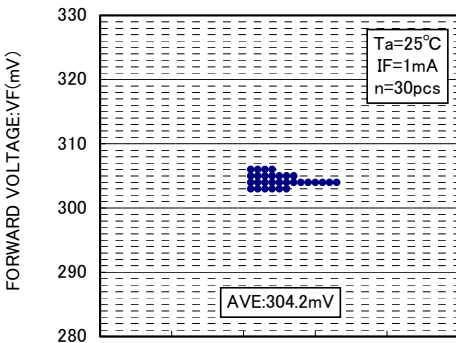
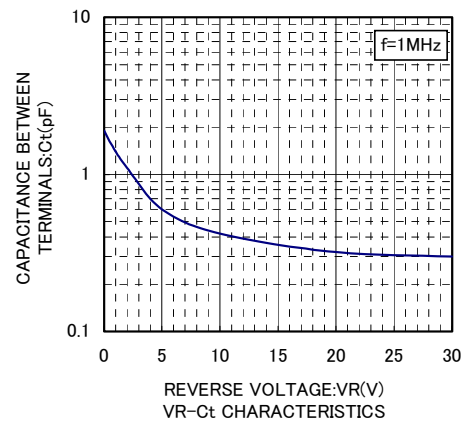
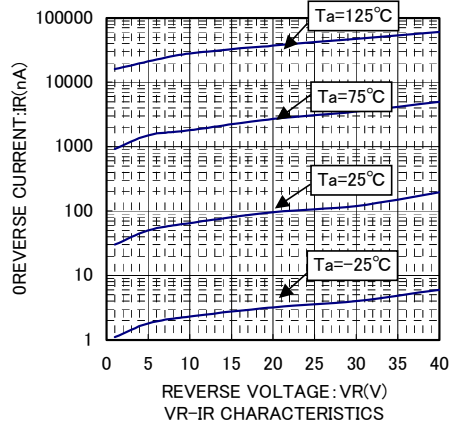
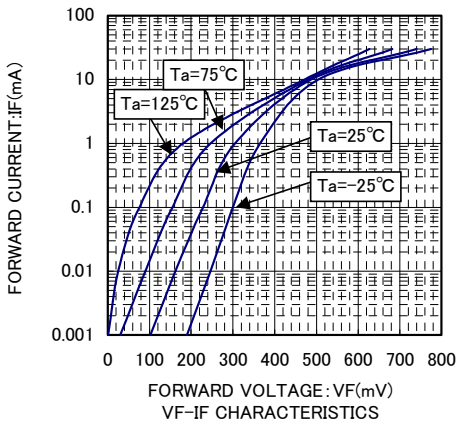
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	$V_F$	-	-	0.37	V	$I_F=1mA$
Reverse current	$I_R$	-	-	0.5	$\mu A$	$V_R=30V$
Capacitance between terminals	$C_t$	-	2	-	pF	$V_R=1V, f=1MHz$

### ●DEVICE MARKING AND ORDERING INFORMATION

Device	Marking	Shipping
LRB751G-40T1G S-LRB751G-40T1G	5	4000/Tape&Reel

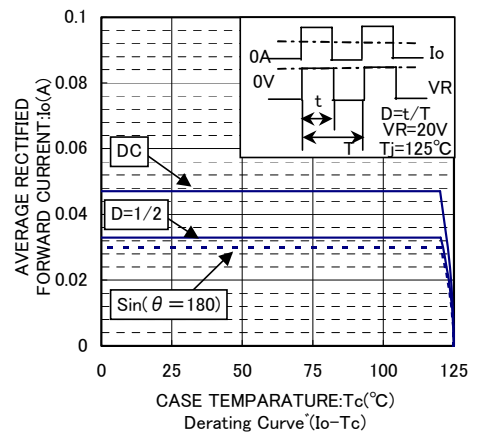
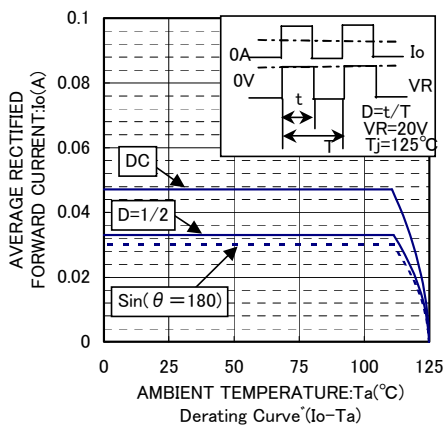
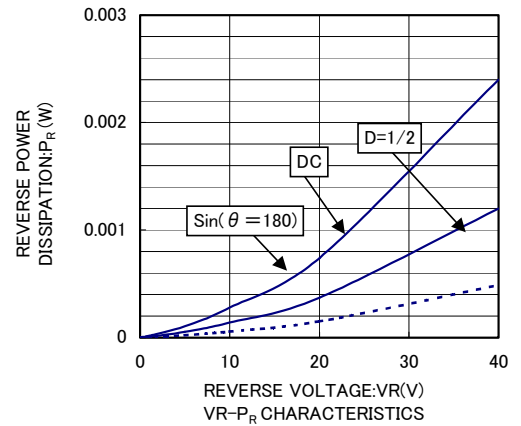
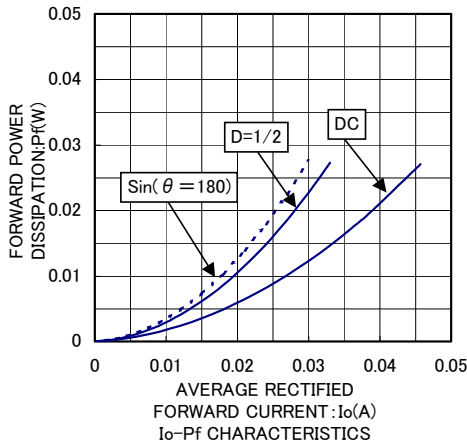
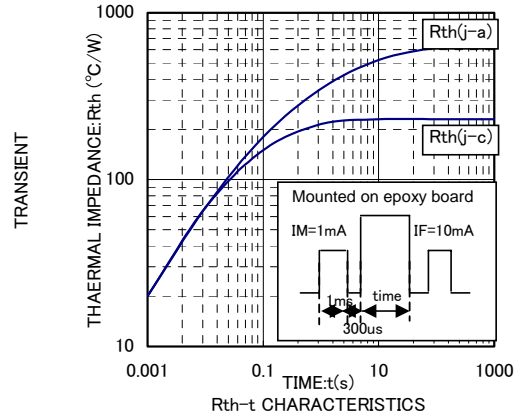
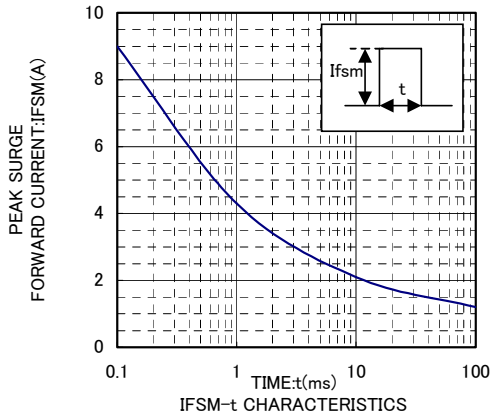
# LRB751G-40T1G ,S-LRB751G-40T1G

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



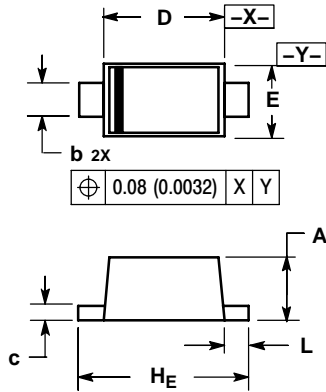
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## Electrical characteristic curves (Ta=25°C)



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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

SOLDERING FOOTPRINT\*

