

# SCHOTTKY BARRIER DIODE

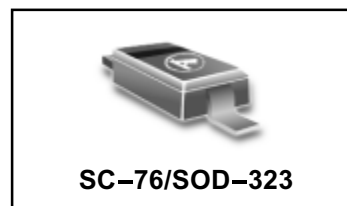
## Features

- (1) Small surface mounting type SC-76/SOD-323
- (2) Low reverse current and low forward voltage.
- (3) High reliability
- (4) Pb-Free package is available.

## Construction

silicon epitaxial planar

**LRB751V-40T1**



## ORDERING INFORMATION

Device	Package	Shipping
LRB751V-40T1	SOD-323/SC-76	3000/Tape&Reel
LRB751V-40T1G (Pb-Free)	SOD-323/SC-76	3000/Tape&Reel



## MAXIMUM RATINGS (T<sub>A</sub> = 25°C)

Parameter	Symbol	Limits	Unit
Peak reverse voltage	V <sub>RM</sub>	40	V
DC reverse voltage	V <sub>R</sub>	30	V
Mean rectifying current	I <sub>O</sub>	30	mA
Peak forward surge current*	I <sub>FSM</sub>	200	mA
Junction temperature	T <sub>j</sub>	125	°C
Storage temperature	T <sub>stg</sub>	-40~+125	°C

\*60Hz for 1

## DEVICE MARKING

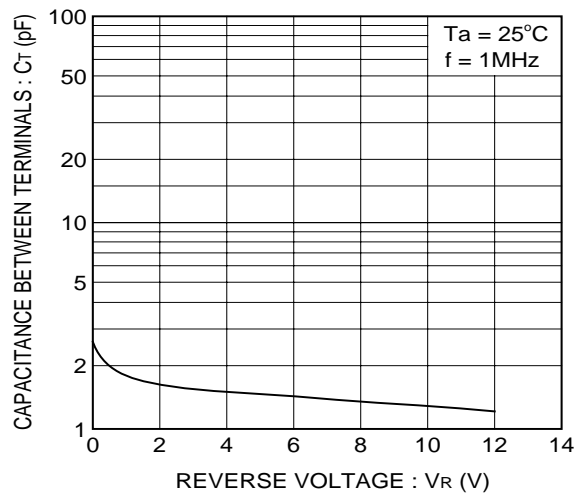
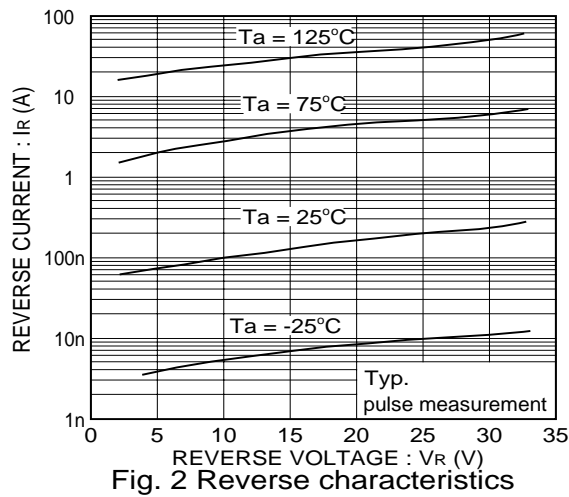
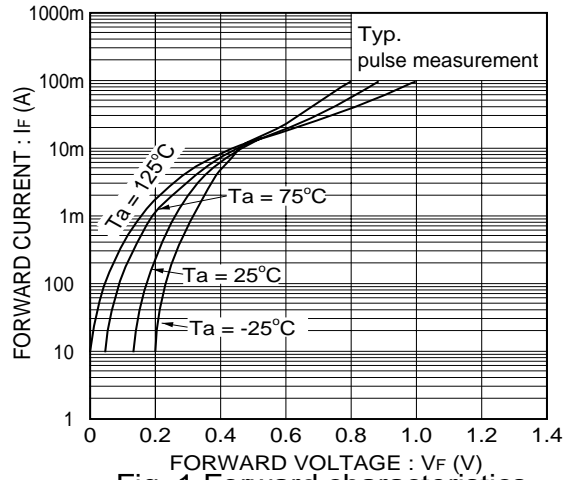
LRB751V-40T1= 5E

## ELECTRICAL CHARACTERISTICS(T<sub>A</sub> = 25°C)

Parameter	Symbol	Min.	Typ	Max.	Unit	Conditions
Forward voltage	V <sub>F</sub>	-	-	0.37	V	I <sub>F</sub> =1mA
Reverse current	I <sub>R</sub>	-	-	0.5	μA	V <sub>R</sub> =30V
Capacitance between terminals	C <sub>T</sub>	-	2.0	-	pF	V <sub>R</sub> =1V, f=1MHz

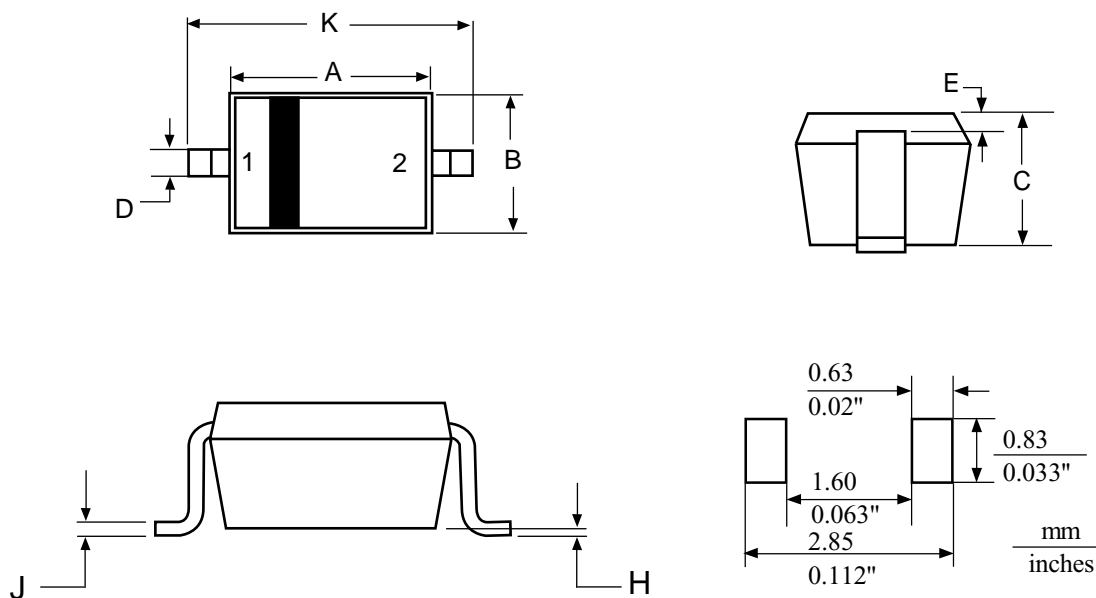
LRB751V-40T1

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



LRB751V- 40T1

SOD-323



**NOTES:**

1. DIMENSIONING AND TOLERANCING  
PER ANSI Y14.5M, 1982.
2. CONTROLLING DIMENSION: MILLIMETERS

DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	1.60	1.80	0.063	0.071
B	1.15	1.35	0.045	0.053
C	0.80	1.00	0.031	0.039
D	0.25	0.40	0.010	0.016
E	0.15 REF		0.006 REF	
H	0.00	0.10	0.000	0.004
J	0.089	0.177	0.0035	0.0070
K	2.30	2.70	0.091	0.106

PIN:1:CATHODE  
2:ANODE