

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

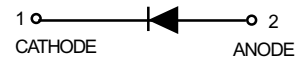
silicon epitaxial planar

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

Parameter	Symbol	Limits	Unit
Peak reverse voltage	V_{RM}	40	V
DC reverse voltage	V_R	30	V
Mean rectifying current	I_O	30	mA
Peak forward surge current*	I_{FSM}	200	mA
Junction temperature	T_j	125	$^\circ\text{C}$
Storage temperature	T_{stg}	-40~+125	$^\circ\text{C}$

*60Hz for 1

DEVICE MARKING

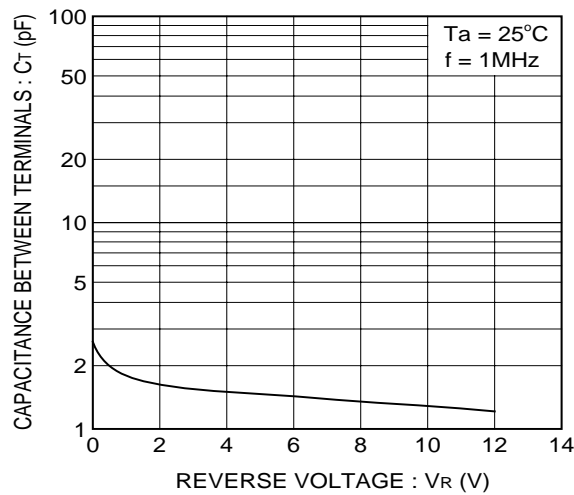
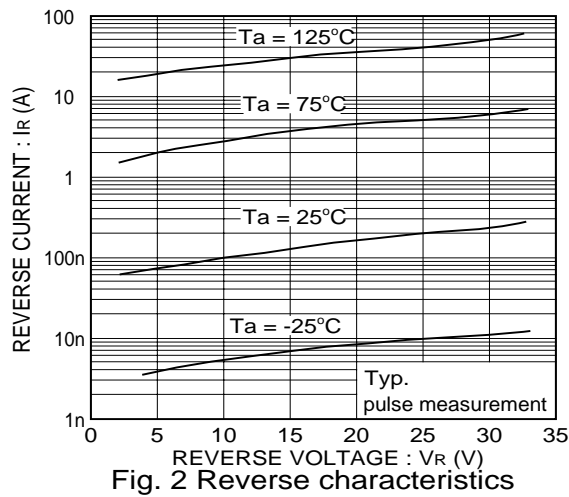
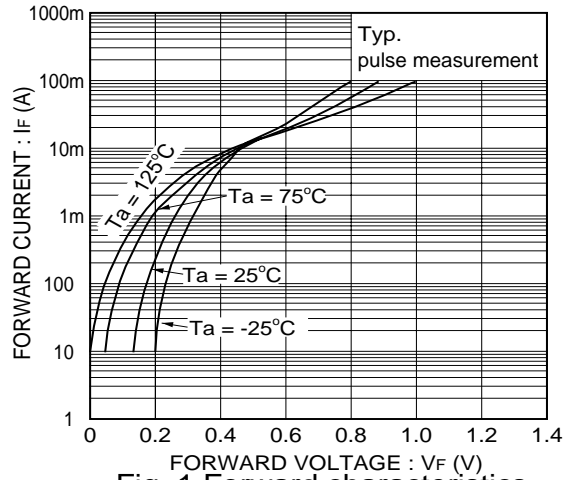
LRB751V-40T1= 5E

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

Parameter	Symbol	Min.	Typ	Max.	Unit	Conditions
Forward voltage	V_F	-	-	0.37	V	$I_F = 1\text{mA}$
Reverse current	I_R	-	-	0.5	μA	$V_R = 30\text{V}$
Capacitance between terminals	C_T	-	2.0	-	pF	$V_R = 1\text{V}, f = 1\text{MHz}$

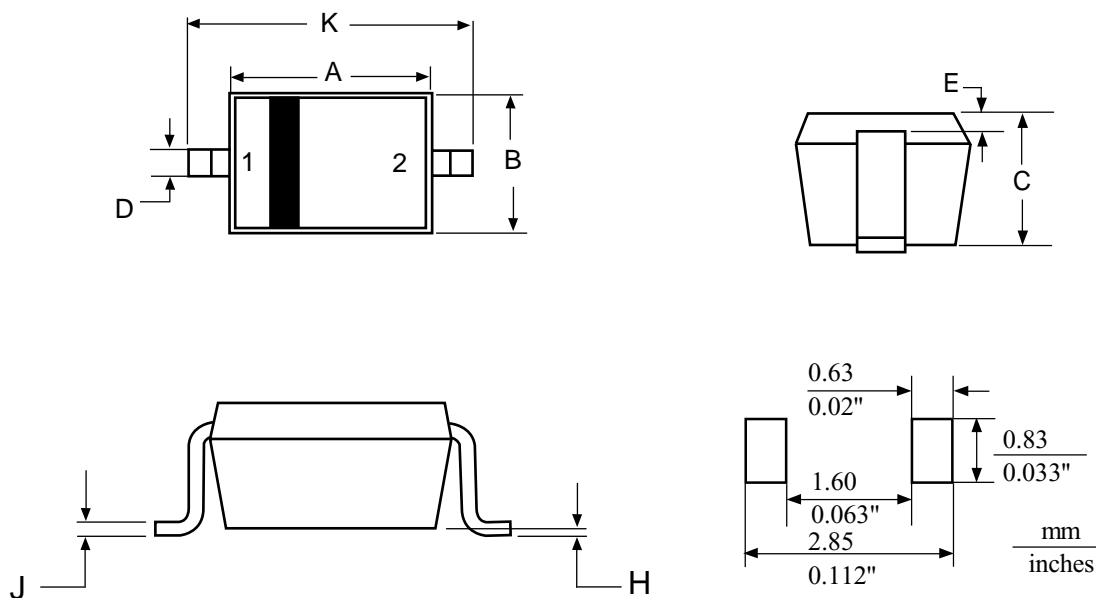
LRB751V-40T1

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