

SCHOTTKY BARRIER DIODE

Features

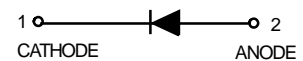
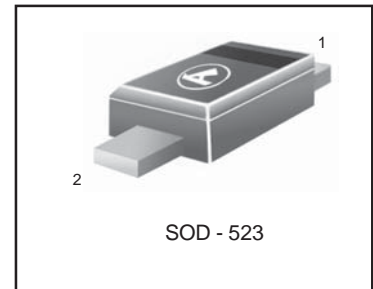
- (1) Small surface mounting type SC-79/SOD523
- (2) Low reverse current and low forward voltage.
- (3) High reliability
- (4) S- Prefix for Automotive and Other Applications Requiring Unique Site and Control Change Requirements; AEC-Q101 Qualified and PPAP Capable.

Construction

silicon epitaxial planar

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

LRB751S-40T1G
S-LRB751S-40T1G



MAXIMUM RATINGS (T_A = 25°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	°C
Storage temperature	T _{stg}	-40~+125	°C

DEVICE MARKING

LRB751S-40T1G= 5

ELECTRICAL CHARACTERISTICS(T_A=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	μA	V _R =30V
Capacitance between terminals	C _T	-	2.0	-	pF	V _R =1V, f=1MHz

Ordering Information

Device	Marking	Shipping
LRB751S-40T1G S-LRB751S-40T1G	5	3000/Tape&Reel
LRB751S-40T3G S-LRB751S-40T3G	5	10000/Tape&Reel

LRB751S-40T1G , S-LRB751S-40T1G

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

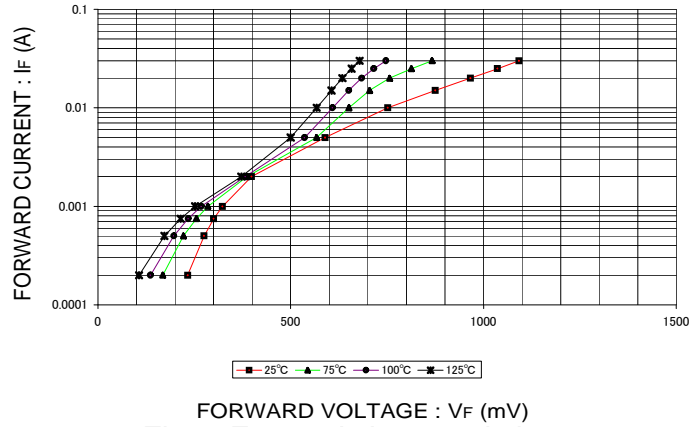


Fig. 1 Forward characteristics

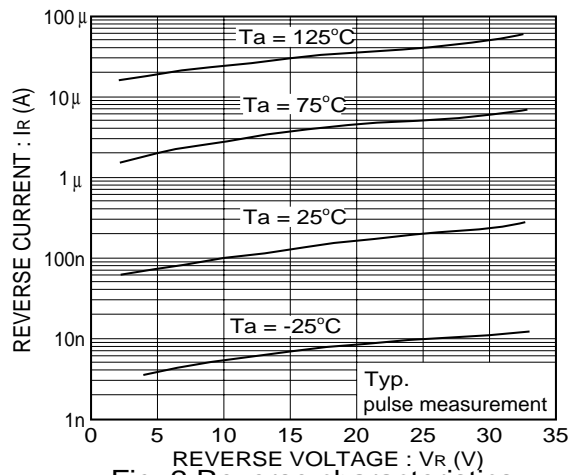


Fig. 2 Reverse characteristics

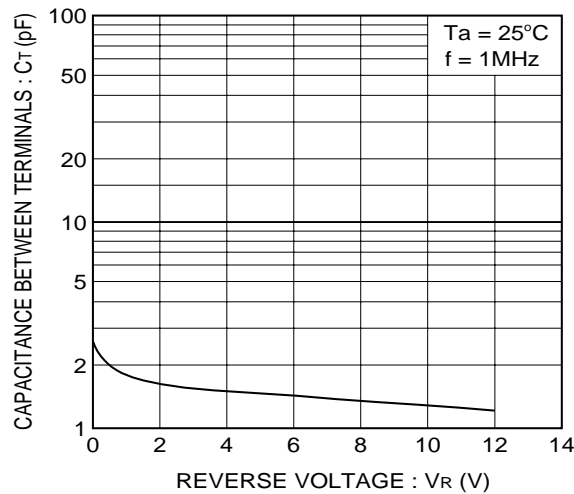
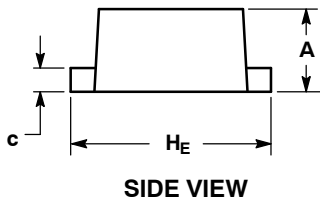
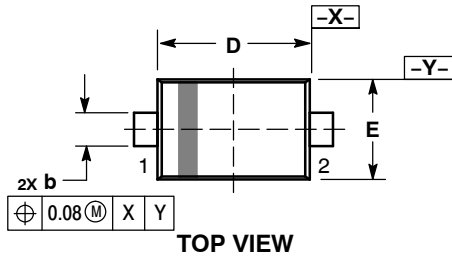


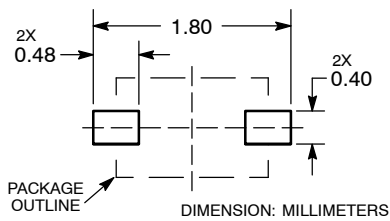
Fig. 3 Capacitance between terminals characteristics

LRB751S-40T1G , S-LRB751S-40T1G

SC-79/SOD-523



RECOMMENDED SOLDERING FOOTPRINT*



NOTES:

1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 1994.
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		
	MIN	NOM	MAX
A	0.50	0.60	0.70
b	0.25	0.30	0.35
c	0.07	0.14	0.20
D	1.10	1.20	1.30
E	0.70	0.80	0.90
H _E	1.50	1.60	1.70
L	0.30 REF		
L2	0.15	0.20	0.25