

DUAL SERIES SCHOTTKY BARRIER DIODE

These Schottky barrier diodes are designed for high speed applications, circuit protection, and voltage clamping. low forward voltage reduces conduction loss. Miniature package is excellent for hand held and portable applications space is limited.

● FEATURES

- 1)Extremely Fast Switching Speed
- 2) Low Forward Voltage — 0.35 Volts (Typ) @ $I_F = 10 \text{ mA}$
- 3)We declare that the material of product compliant with RoHS requirements and Halogen Free.
- 4)S- Prefix for automotive and other applications requiring unique site and control change requirements; AEC-Q101 qualified and PPAP capable.

● DEVICE MARKING AND ORDERING INFORMATION

Device	Marking	Shipping
LBAT54CLT1G	5C	3000/Tape&Reel
LBAT54CLT3G	5C	10000/Tape&Reel

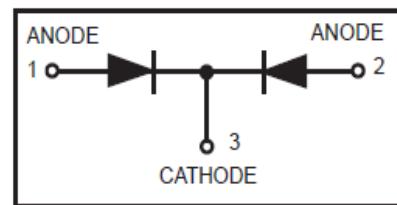
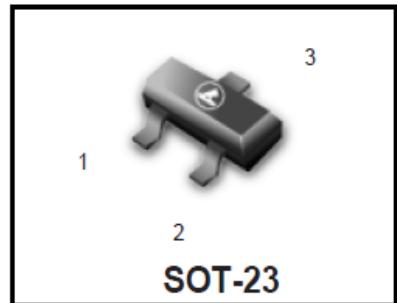
● MAXIMUM RATINGS(Ta = 25°C)

Rating	Symbol	Limits	Unit
DC reverse voltage	V _R	30	V
Forward Power Dissipation @ T _A = 25°C	P _F	225 1.8	mW mW/°C
Derate above 25°C			
DC forward current	I _F	200Max	mA
Junction temperature	T _J	125Max	°C
Storage temperature	T _{stg}	-55~+150	°C

● ELECTRICAL CHARACTERISTICS (Ta= 25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Reverse Breakdown Voltage	V _{(BR)R}	30	—	—	V	I _R = 10 μA
Total Capacitance	C _T	—	—	10	pF	V _R = 1.0 V, f = 1.0 MHz
Reverse current	I _R	—	0.5	2	μA	V _R =25V
Forward voltage	V _F	—	0.22	0.24	V	I _F =0.1mA
Forward voltage	V _F	—	0.29	0.32	V	I _F =1mA
Forward voltage	V _F	—	0.35	0.4	V	I _F =10mA
Forward voltage	V _F	—	0.41	0.5	V	I _F =30mA
Forward voltage	V _F	—	0.52	1	V	I _F =100mA
Reverse Recovery Time	trr	—	—	5	ns	I _F = I _R = 10mA, I _{R(REC)} = 1.0 mA
Repetitive Peak Forward Current	I _{FRM}	—	—	300	mA	
Non-Repetitive Peak Forward	I _{FSM}	—	—	600	mA	(t < 1.0 s)

LBAT54CLT1G
S-LBAT54CLT1G



LBAT54CLT1G,S-LBAT54CLT1G

ELECTRICAL CHARACTERISTIC CURVES

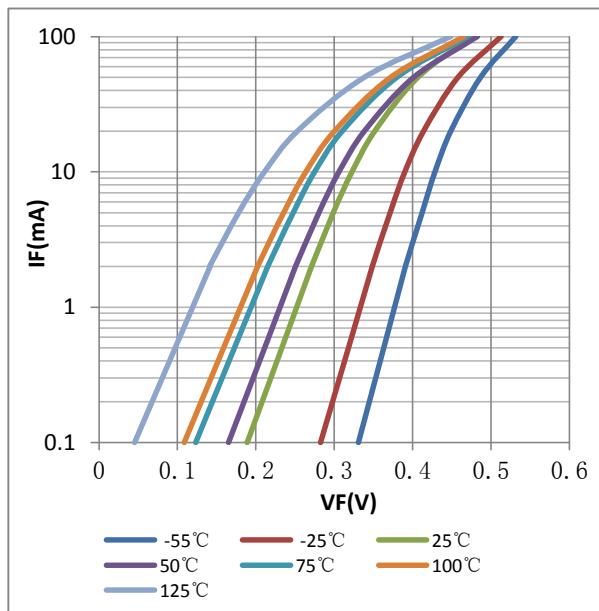


FIG. 1 Forward Characteristics

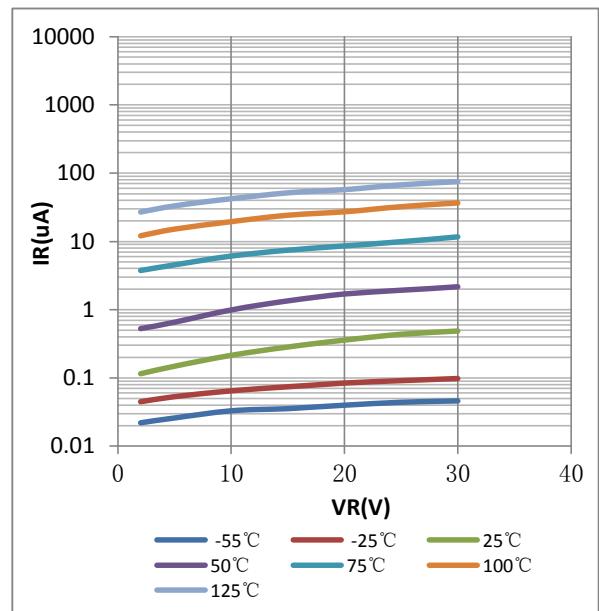


FIG. 2 Reverse Characteristics

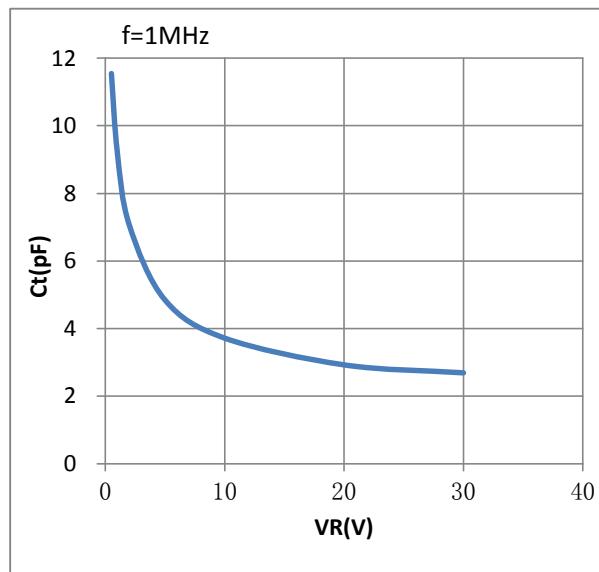
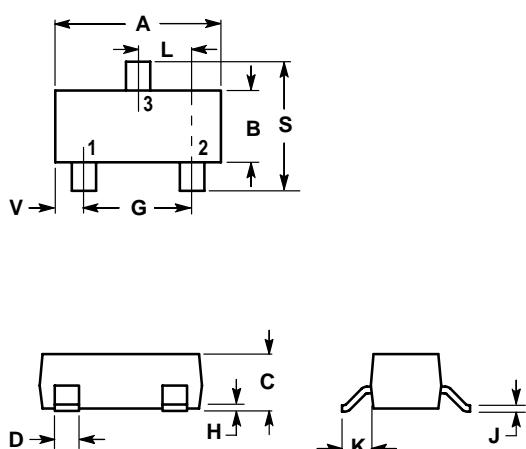


FIG. 3 Capacitance

LBAT54CLT1G,S-LBAT54CLT1G

SOT-23

Dimension Outline:



NOTES:

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

DIM	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.1102	0.1197	2.80	3.04
B	0.0472	0.0551	1.20	1.40
C	0.0350	0.0440	0.89	1.11
D	0.0150	0.0200	0.37	0.50
G	0.0701	0.0807	1.78	2.04
H	0.0005	0.0040	0.013	0.100
J	0.0034	0.0070	0.085	0.177
K	0.0140	0.0285	0.35	0.69
L	0.0350	0.0401	0.89	1.02
S	0.0830	0.1039	2.10	2.64
V	0.0177	0.0236	0.45	0.60

Soldering Footprint:

