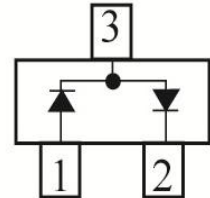
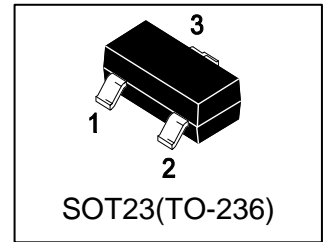


LBAV199LT1G

S-LBAV199LT1G

Surface Mount Low Leakage Diode



1. FEATURES

- We declare that the material of product compliance with RoHS requirements and Halogen Free.
- S- prefix for automotive and other applications requiring unique site and control change requirements; AEC-Q101 qualified and PPAP capable.
- Ultra-Small Surface Mount Package
- Low Leakage Current

2. DEVICE MARKING AND ORDERING INFORMATION

Device	Marking	Shipping
LBAV199LT1G	52	3000/Tape&Reel
LBAV199LT3G	52	10000/Tape&Reel

3. MAXIMUM RATINGS(Ta = 25°C)

Parameter	Symbol	Limits	Unit
Peak Repetitive Reverse Voltage	VRRM	85	V
Working Peak Reverse Voltage	VRWM		
DC Blocking Voltage	VR		
RMS Reverse Voltage	VR(RMS)	60	V
Forward Continuous Current (Note 1)	IFM	215	mA
		125	
Repetitive Peak Forward Current	IFRM	500	mA
Non-Repetitive Peak Forward Current	IFSM	4	A
t=1μs		1	
t=1ms		0.5	
t=1s			
Power Dissipation (Note 1)	PD	150	mW
Thermal Resistance Junction to Ambient Air (Note 1)	RθJA	833	°C/W
Operating and Storage Temperature Range	TJ/Tstg	-65~+150	°C

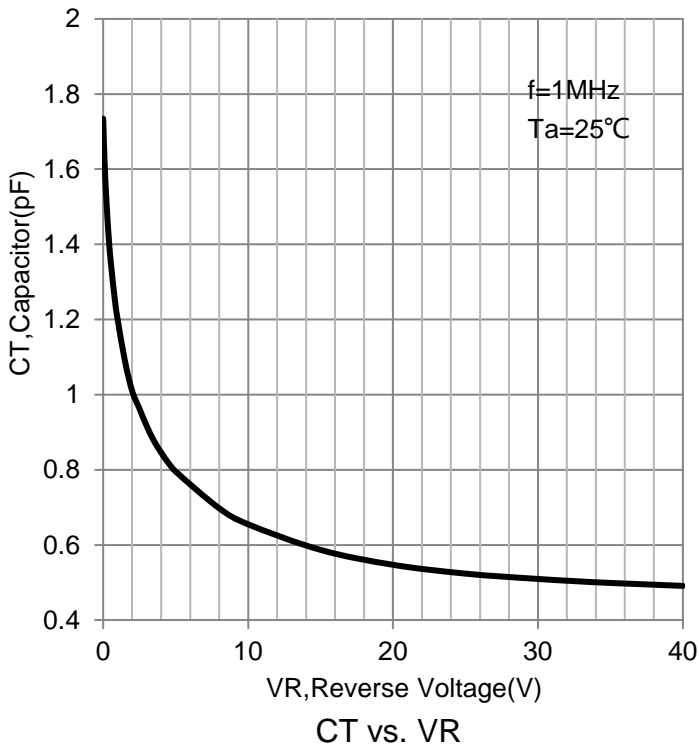
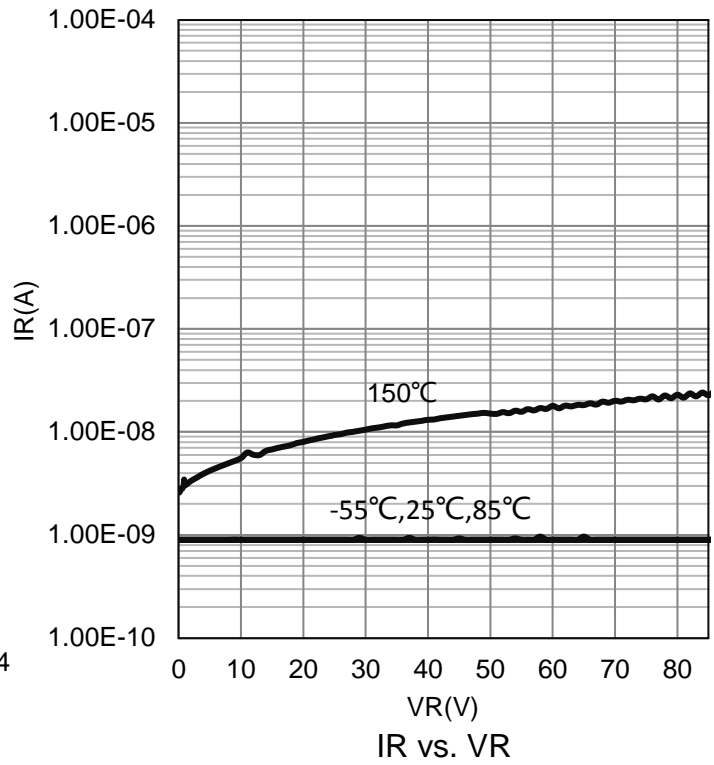
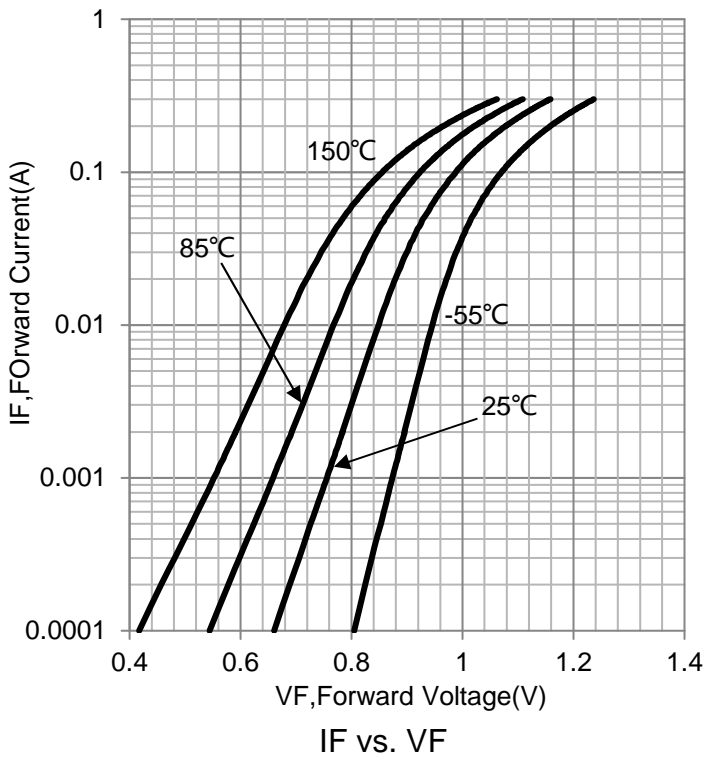
1. Device mounted on FR-4 PC board with recommended pad layout

4. ELECTRICAL CHARACTERISTICS (Ta= 25°C)

Characteristic	Symbol	Min.	Typ.	Max.	Unit
Static					
Reverse Breakdown Voltage (IR = 100μA)	V(BR)R	85	-	-	V
Forward Voltage (IF = 1mA)	VF	-	-	0.9	V
(IF = 10mA)		-	-	1	
(IF = 50mA)		-	-	1.1	
(IF = 150mA)		-	-	1.25	
Leakage Current (Note 2) (VR=75V)	IR	-	-	5	nA
(VR=75V, Tj=150°C)		-	-	80	
Total Capacitance (VR=0, f=1MHz)	CT	-	2	-	pF
Reverse Recovery Time (IF = IR = 10mA, Irr = 0.1 x IR , RL = 100Ω)	trr	-	-	3	μs

2.Short duration test pulse used to minimize self-heating effect.

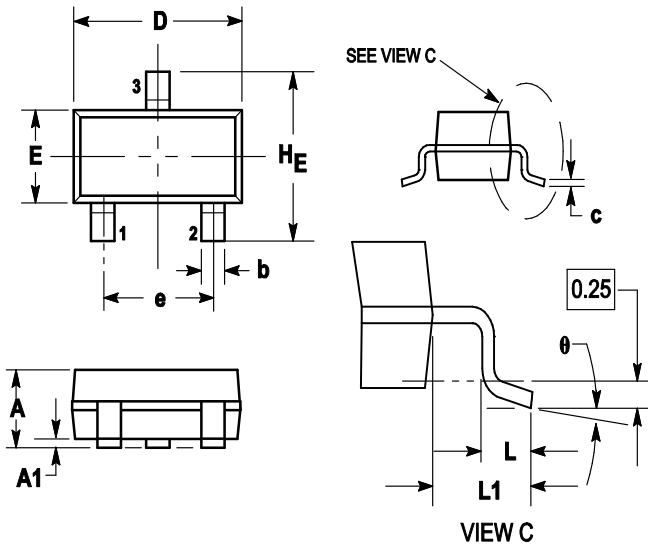
5.ELECTRICAL CHARACTERISTICS CURVES



6. OUTLINE AND DIMENSIONS

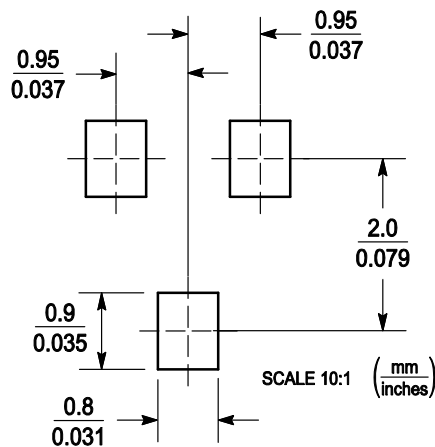
Notes:

1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
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			INCHES		
	MIN	NOM	MAX	MIN	NOM	MAX
A	0.89	1	1.11	0.035	0.04	0.044
A1	0.01	0.06	0.1	0.001	0.002	0.004
b	0.37	0.44	0.5	0.015	0.018	0.02
c	0.09	0.13	0.18	0.003	0.005	0.007
D	2.80	2.9	3.04	0.11	0.114	0.12
E	1.20	1.3	1.4	0.047	0.051	0.055
e	1.78	1.9	2.04	0.07	0.075	0.081
L	0.10	0.2	0.3	0.004	0.008	0.012
L1	0.35	0.54	0.69	0.014	0.021	0.029
HE	2.10	2.4	2.64	0.083	0.094	0.104
θ	0°	---	10°	0°	---	10°

7. SOLDERING FOOTPRINT



DISCLAIMER

- Curve guarantee in the specification. The curve of test items with electric parameter is used as quality guarantee. The curve of test items without electric parameter is used as reference only.
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- All information contained in this document is current as of the issuing date and subject to change without any prior notice. Before purchasing or using LRC's Products, please confirm the latest information with a LRC sales representative.

单击下面可查看定价，库存，交付和生命周期等信息

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