

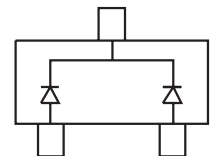
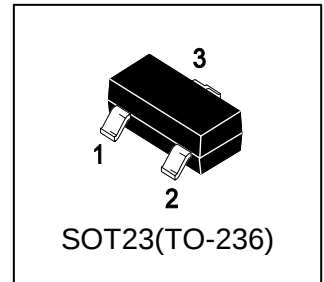
LBAV170LT1G

S-LBAV170LT1G

Surface Mount Low Leakage Diode

1. FEATURES

- Ultra-Small Surface Mount Package
- Very Low Leakage Current
- 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.



2. DEVICE MARKING AND RESISTOR VALUES

Device	Marking	Shipping
LBAV170LT1G	51	3000/Tape&Reel
LBAV170LT3G	51	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 Surge Current (t = 1.0μs) (t = 1ms) (t = 1s)	IFSM	4	A
		1	
		0.5	
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

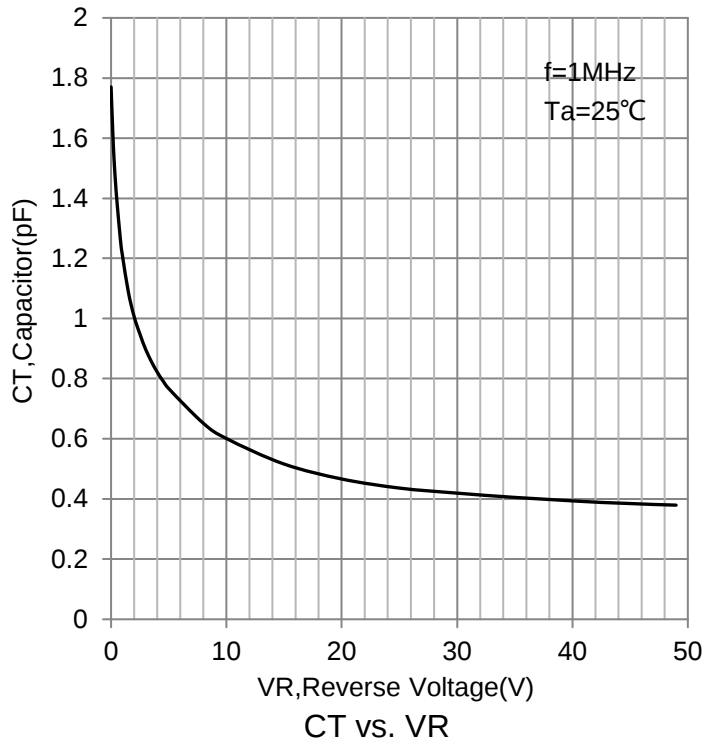
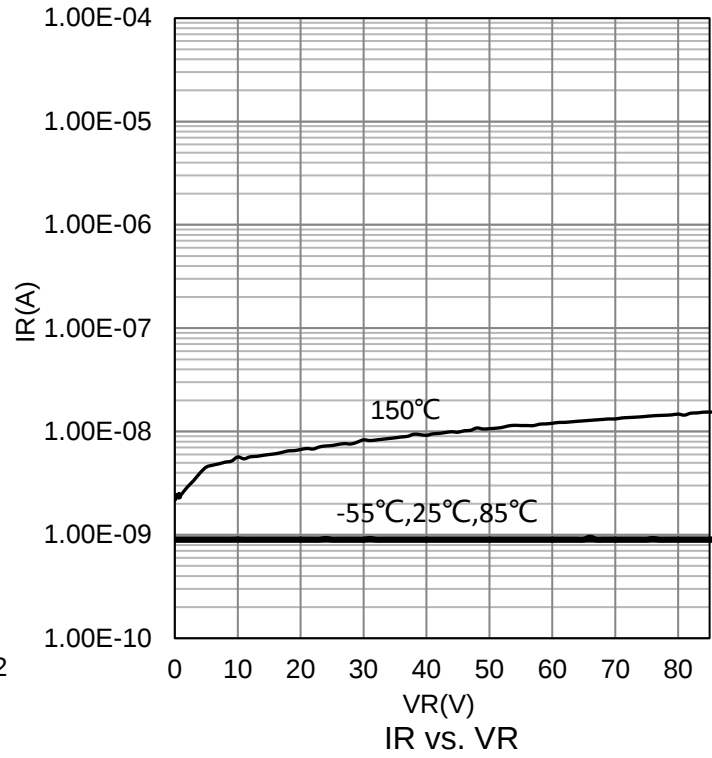
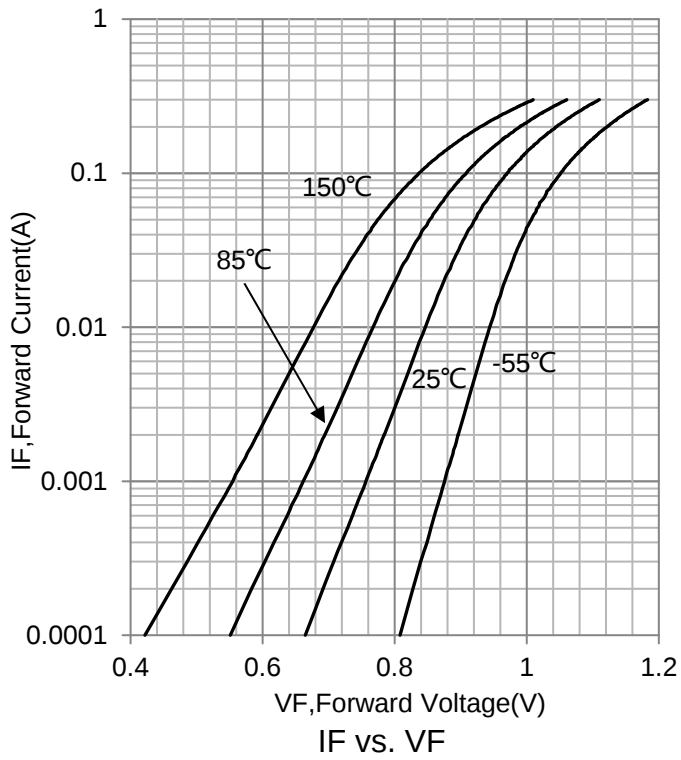
1. Device mounted on FR-4 PC board with recommended pad layout
2. No purposefully added lead.

4. ELECTRICAL CHARACTERISTICS (Ta= 25°C)

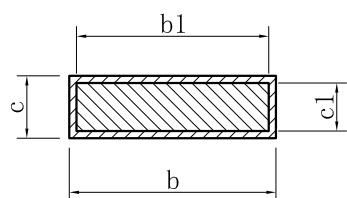
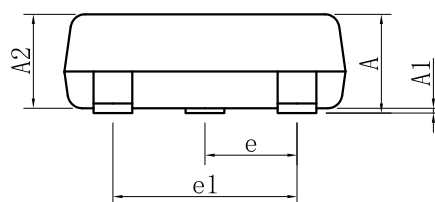
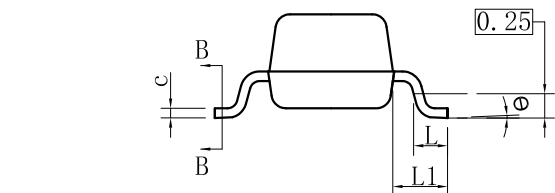
CHARACTERISTICS	Symbol	Min	Typ	Max	Unit
Reverse Breakdown Voltage(Note 3) (IR = 100 μ A)	V(BR)R	85	-	-	V
Forward voltage (IF =1mA)	VF	-	-	0.9	V
(IF =10mA)		-	-	1	
(IF =50mA)		-	-	1.1	
(IF =150mA)		-	-	1.25	
Leakage Current (Note 3) (VR = 75V)	IR	-	-	5	nA
(VR = 75V,Tj=150°C)		-	-	80	
Total Capacitance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

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

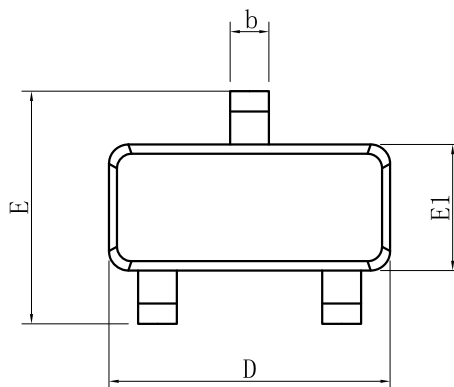
5.ELECTRICAL CHARACTERISTICS CURVES



6.OUTLINE AND DIMENSIONS



SECTION B-B

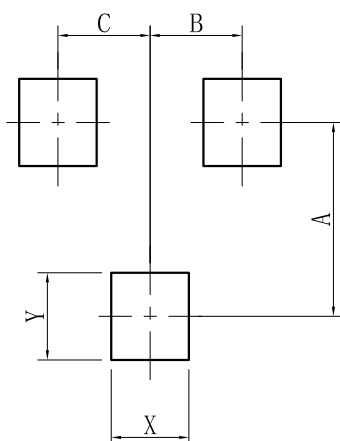


SOT23			
DIM	MIN	NOR	MAX
A	0.89	-	1.12
A1	0.01	-	0.10
A2	0.88	0.95	1.02
b	0.30	-	0.50
b1	0.30	0.40	0.45
c	0.08	-	0.20
c1	0.08	0.10	0.16
D	2.80	2.90	3.04
E	2.10	-	2.64
E1	1.20	1.30	1.40
e	0.95BSC		
e1	1.90BSC		
L	0.40	0.46	0.60
L1	0.54REF		
θ	0°	-	8°
All Dimensions in mm			

GENERAL NOTES

- 1.Top package surface finish $Ra0.4\pm0.2\mu m$
- 2.Bottom package surface finish $Ra0.7\pm0.2\mu m$
- 3.Side package surface finish $Ra0.4\pm0.2\mu m$

7.SOLDERING FOOTPRINT



SOT-23	
DIM	(mm)
X	0.80
Y	0.90
A	2.00
B	0.95
C	0.95

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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