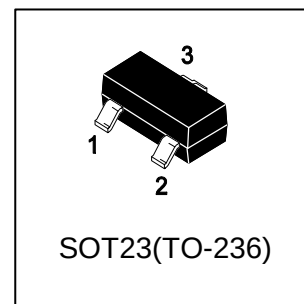


LBZX84B5V1LT1G

Zener Voltage Regulators

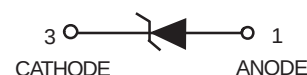
1. FEATURES

- We declare that the material of product compliance with RoHS requirements and Halogen Free.



2. Applications

- General regulation functions



3. DEVICE MARKING AND ORDERING INFORMATION

Device	Marking	Shipping
LBZX84B5V1LT1G	A2	3000/Tape&Reel

4. THERMAL CHARACTERISTICS

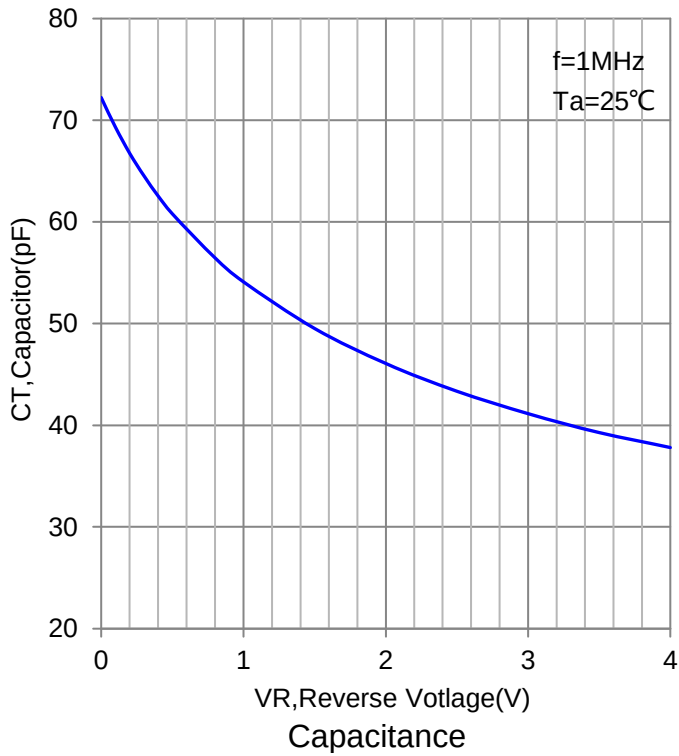
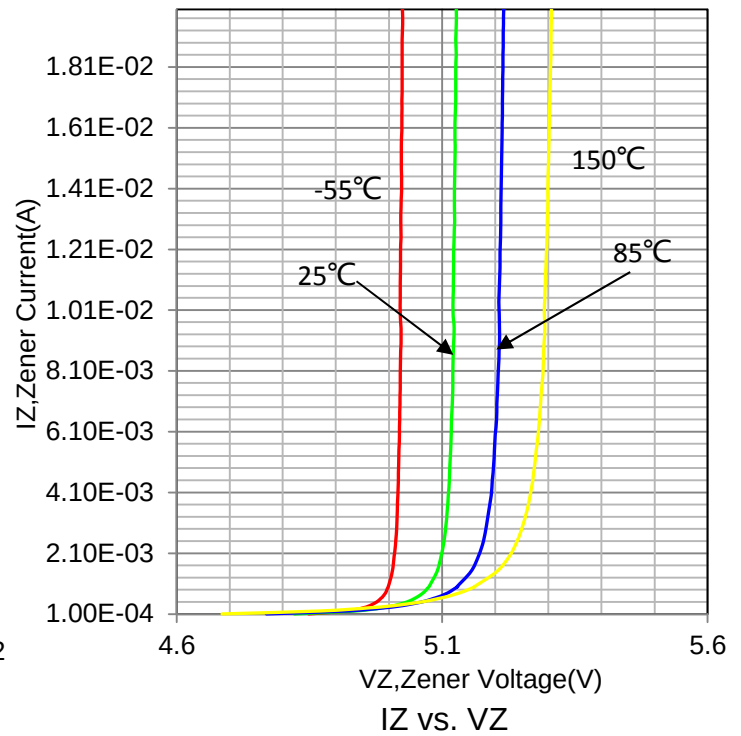
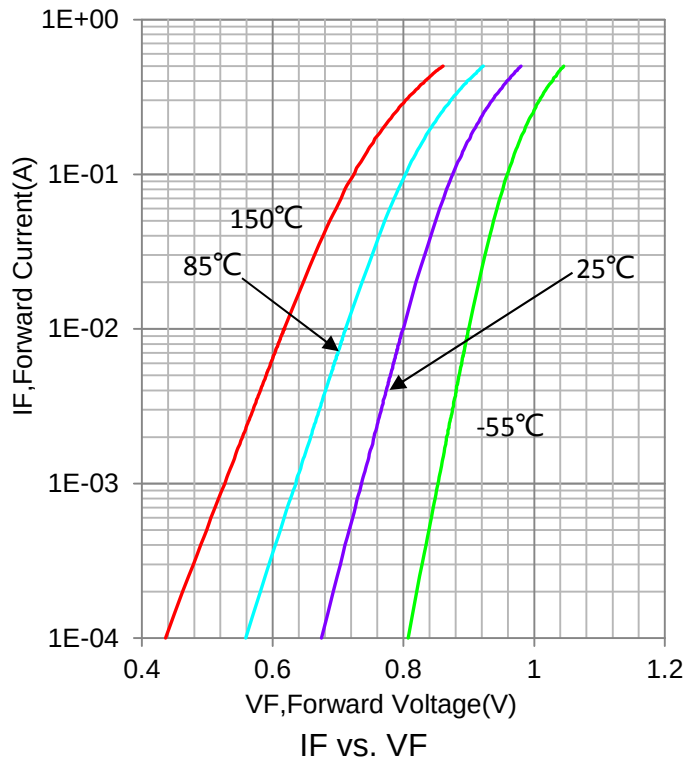
Parameter	Symbol	Limits	Unit
Total Device Dissipation, FR-4 Board (Note 1) @ TA = 25°C Derate above 25°C	PD	297 2.37	mW mW/°C
Thermal Resistance Junction-to-Ambient	RθJA	421	°C/W
Junction temperature	TJ	+150	°C
Storage temperature	Tstg	-55 ~ +150	°C
Operating temperature	Topr	-55 ~ +150	°C

1.30.0mm×25.0mm×1.6mm(FR4), Copper foil thickness 35μm;

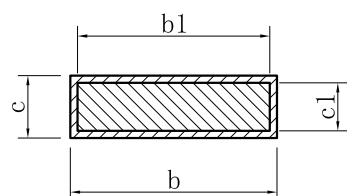
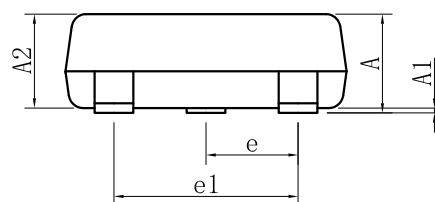
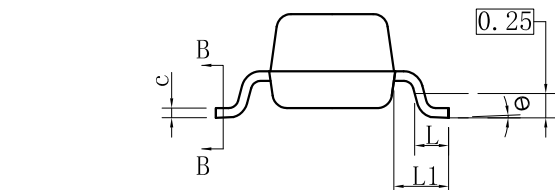
5. ELECTRICAL CHARACTERISTICS (Ta= 25°C)

Characteristic	Symbol	Min.	Typ.	Max.	Unit
Zener Voltage (IZT = 5 mA)	VZ	4.98	5.1	5.2	V
Operating Resistance (IZ = 5mA)	ZZT	-	-	80	Ω
Rising Operating Resistance (IZ = 0.5mA)	ZZK	-	-	500	Ω
Reverse current (VR=1.5V)	IR	-	-	2	μA

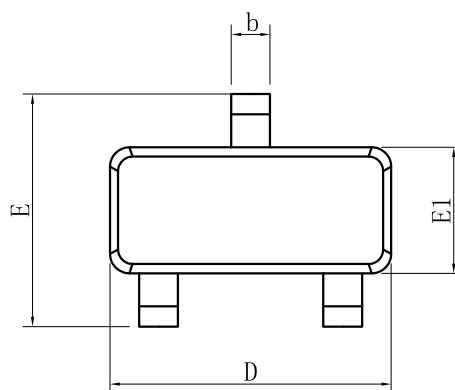
6.ELECTRICAL CHARACTERISTICS CURVES



7.OUTLINE AND DIMENSIONS



SECTION B-B

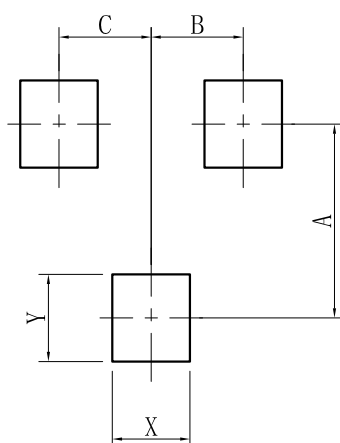


SOT23			
DIM	MIN	NOR	MAX
A	0.89	-	1.12
A1	0.01	-	0.10
A2	0.88	0.95	1.02
b	0.30	-	0.50
b1	0.30	0.40	0.45
c	0.08	-	0.20
c1	0.08	0.10	0.16
D	2.80	2.90	3.04
E	2.10	-	2.64
E1	1.20	1.30	1.40
e	0.95BSC		
e1	1.90BSC		
L	0.40	0.46	0.60
L1	0.54REF		
θ	0°	-	8°
All Dimensions in mm			

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 $Ra0.4\pm0.2\mu m$

8.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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