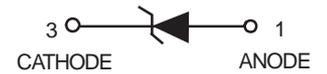
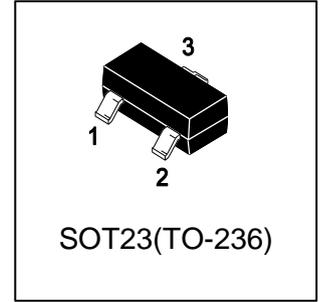


S-LBZX84B18LT1G

Zener Voltage Regulators

1. FEATURES

- Non-wire bonding structure improves
- Silicon epitaxial planar
- 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 ORDERING INFORMATION

Device	Marking	Shipping
S-LBZX84B18LT1G	65	3000/Tape&Reel

3. THERMAL CHARACTERISTICS

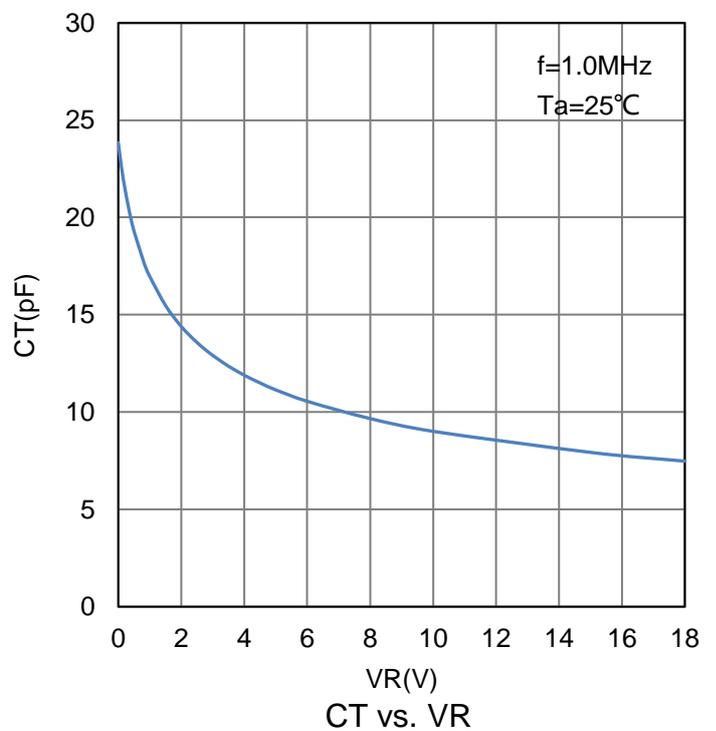
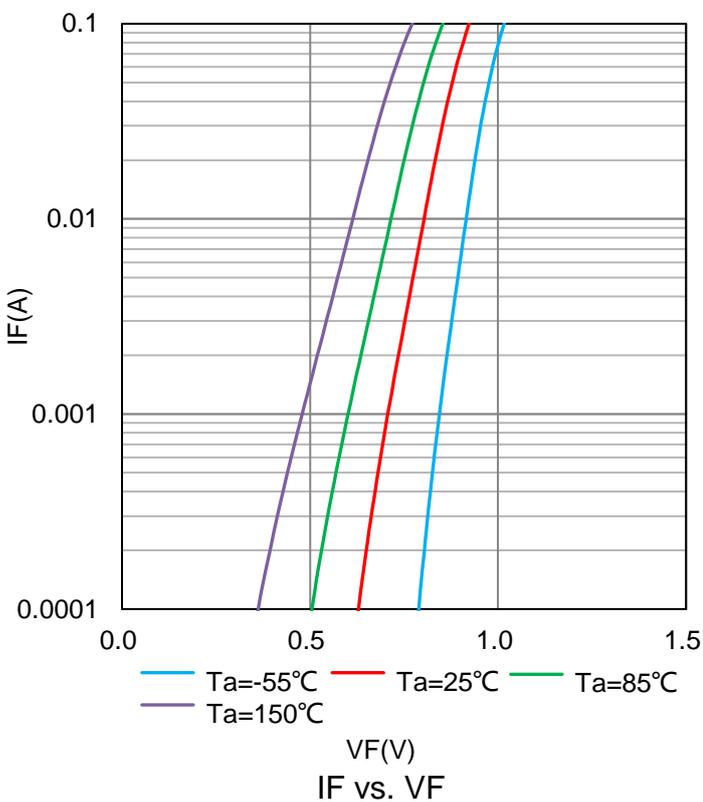
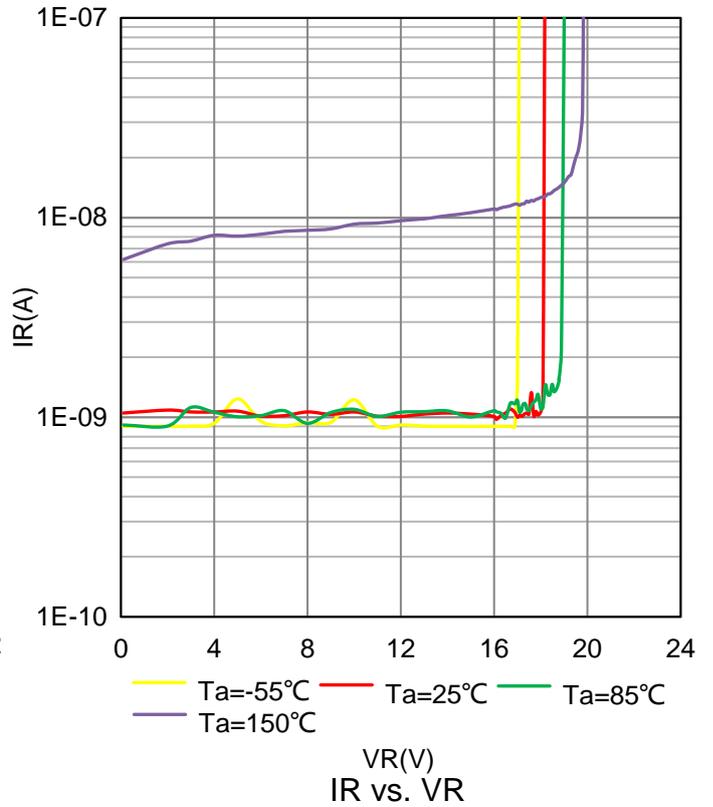
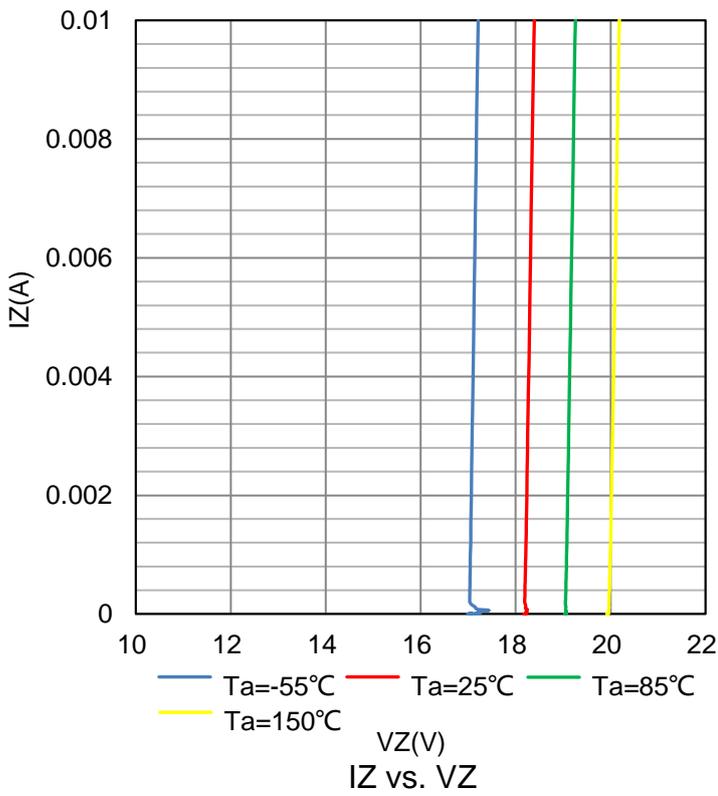
Parameter	Symbol	Limits	Unit
Total Device Dissipation, FR-4 Board (Note 1) @ TA = 25°C	PD	300	mW
Thermal Resistance Junction-to-Ambient	R θ JA	435	°C/W
Thermal Resistance Junction-to-Case	R θ JC	190	°C/W
Junction temperature	TJ	+150	°C
Storage temperature	Tstg	-55 ~ +150	°C
Operating temperature	Topr	-55 ~ +150	°C

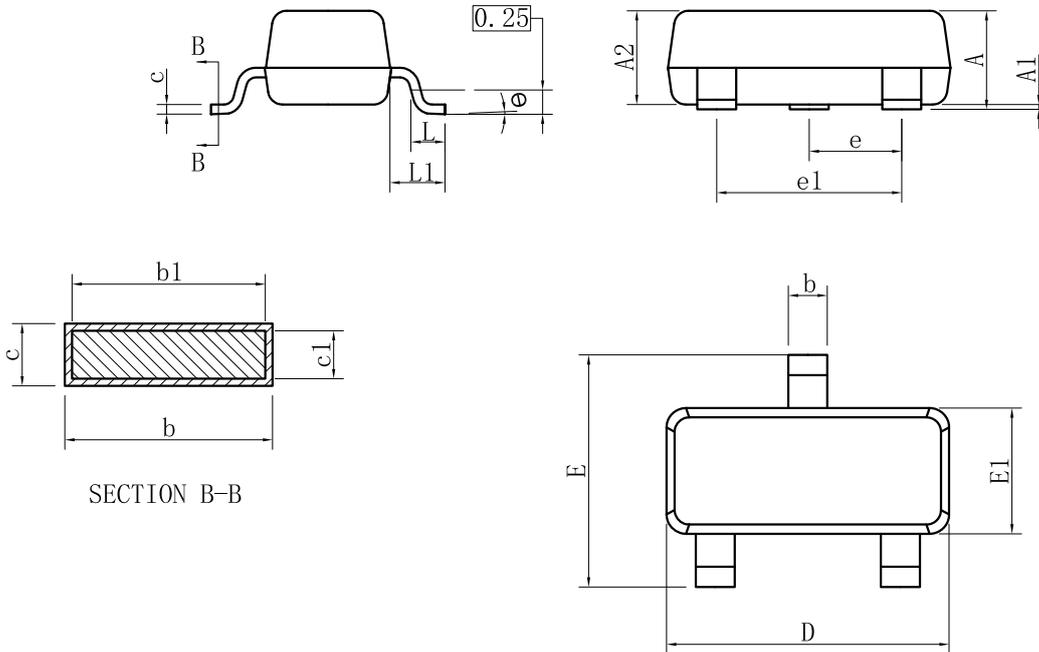
1. Device mounted on an FR-4 PCB, single-sided copper, tin-plated and standard footprint.

4. ELECTRICAL CHARACTERISTICS (Ta= 25°C)

Characteristic	Symbol	Min.	Typ.	Max.	Unit
Forward Voltage (IF = 10 mA)	VF	-	-	0.9	V
Zener Voltage (IZT = 5 mA)	VZ	17.56	-	18.35	V
Operating Resistance (IZ =5mA)	ZZ	-	-	65	Ω
Rising Operating Resistance (IZ =0.5mA)	ZZK	-	-	80	Ω
Reverse current (VR=13V)	IR	-	-	0.1	μA

5.ELECTRICAL CHARACTERISTICS CURVES

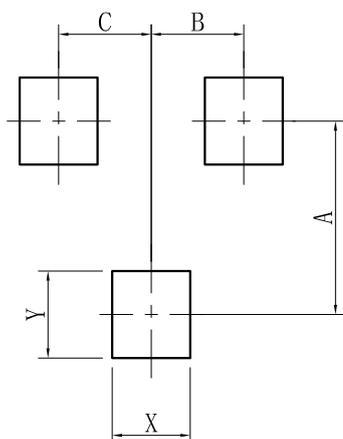


6.OUTLINE AND DIMENSIONS


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±0.2um
- 2.Bottom package surface finish Ra0.7±0.2um
- 3.Side package surface finish Ra0.4±0.2um

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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