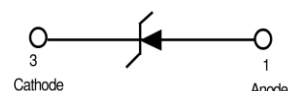
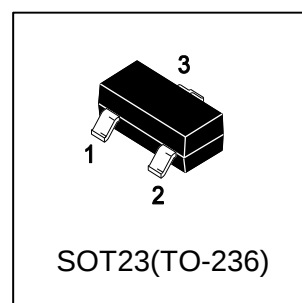


S-LBZX84C5V1LT1G

Zener Voltage Regulator Diodes

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.



2. DEVICE MARKING AND ORDERING INFORMATION

Device	Marking	Shipping
S-LBZX84C5V1LT1G	Z2	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	RθJA	435	°C/W
Thermal Resistance Junction-to-Case	RθJC	190	°C/W
Junction temperature	TJ	-55 ~ +150	°C
Storage temperature	Tstg	-55 ~ +150	°C

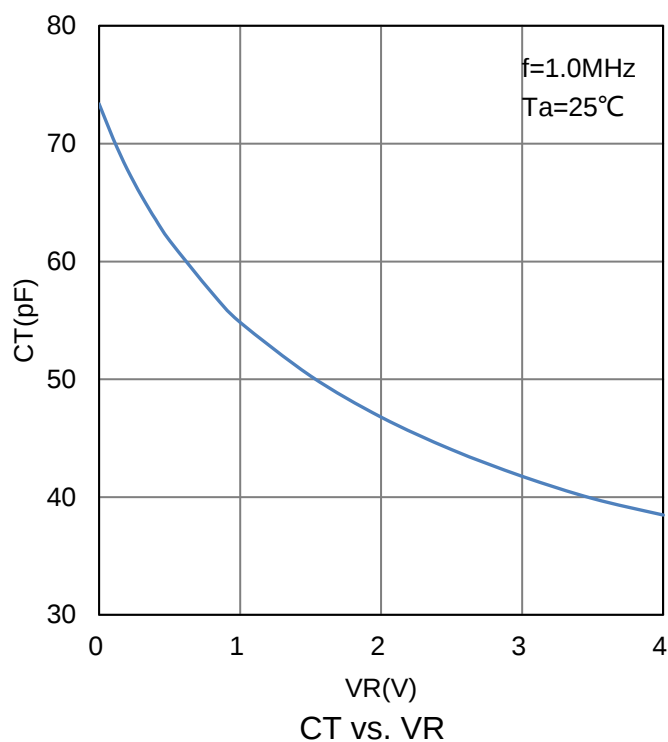
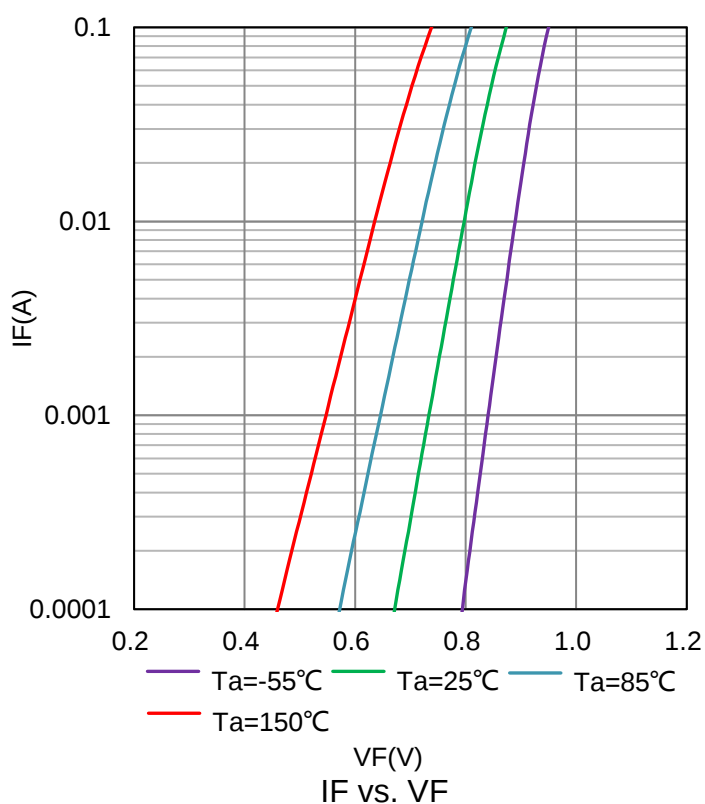
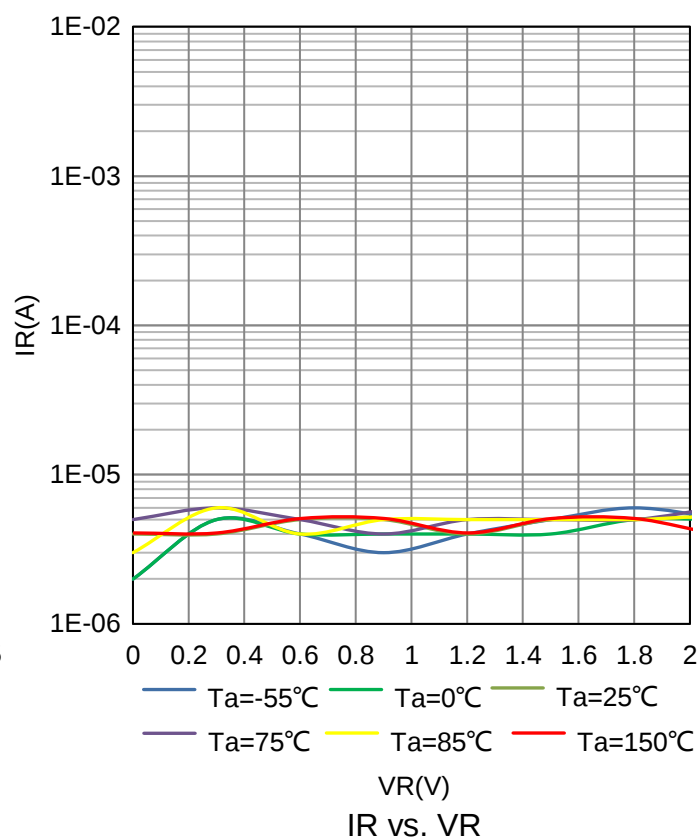
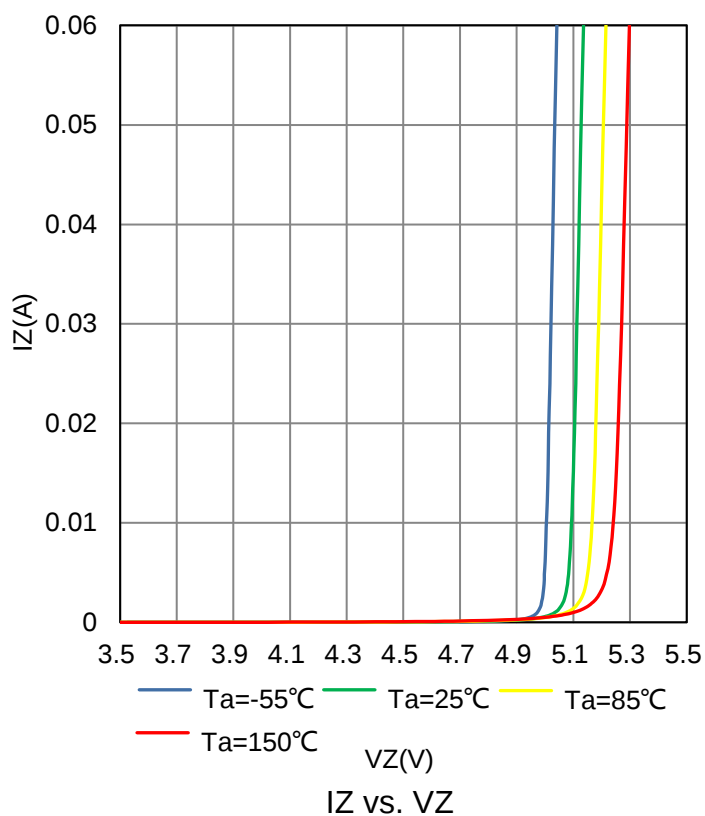
1. Device mounted on an FR-4 PCB, single-sided copper, tin-plated and standard footprint.

4. ELECTRICAL CHARACTERISTICS (Ta= 25°C)

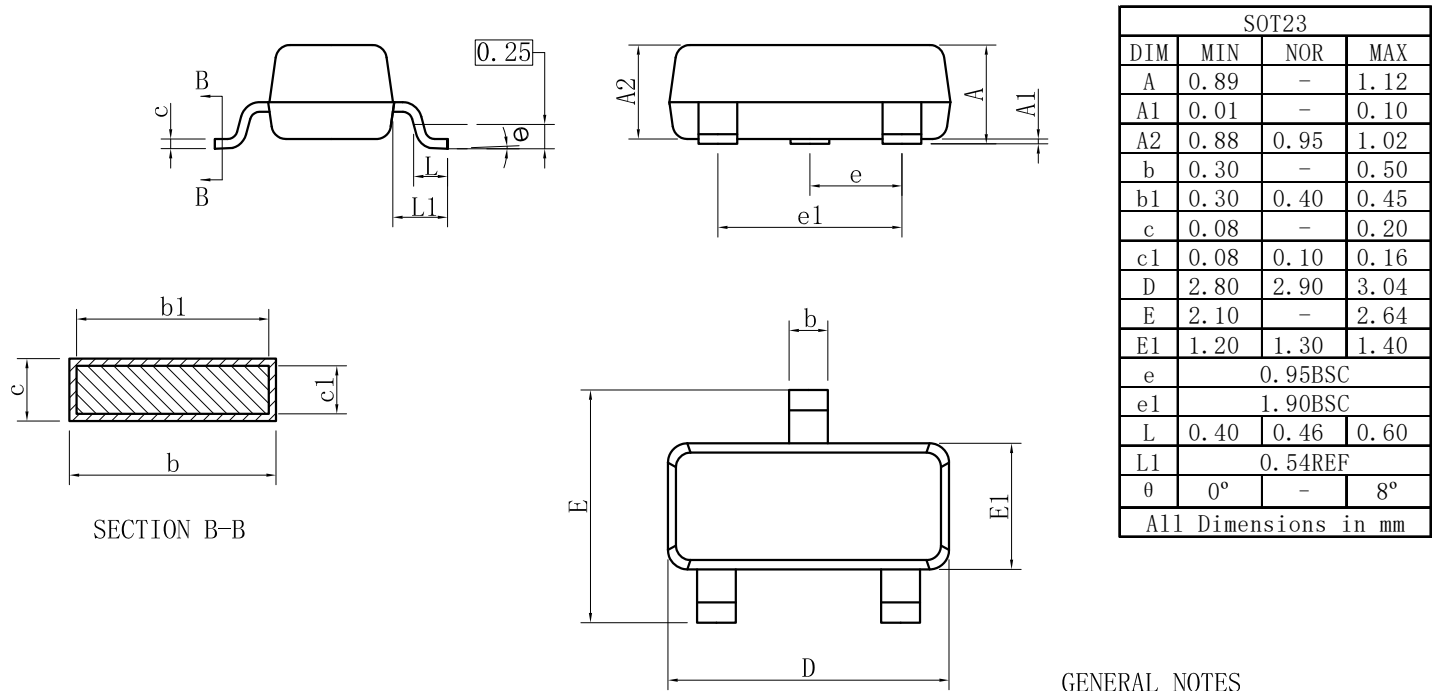
Characteristic	Symbol	Min.	Typ.	Max.	Unit
Zener Voltage(Note 2) (IZT1 = 5 mA) (IZT2 = 1 mA) (IZT3 = 20 mA)	VZ	4.8 4.2 5	5.1 - -	5.4 5.3 5.9	V
Zener Impedance (IZT1 =5mA) (IZT1 =1mA) (IZT1 =20mA)	ZZT	- - -	- - -	60 480 15	Ω
Reverse Leakage Current (VR=2V)	IR	-	-	2	μA
Forward Voltage (IF=10mA)	VF	-	-	0.9	V
Capacitance (VR=0,f=1MHz)	C	-	-	225	pF
Temperature Coefficient (IZT1 = 5 mA)	θVZ	-2.7	-	1.2	mV/°C

2.Zener voltage is measured with a pulse test current IZ at an ambient temperature of 25°C.

5.ELECTRICAL CHARACTERISTICS CURVES



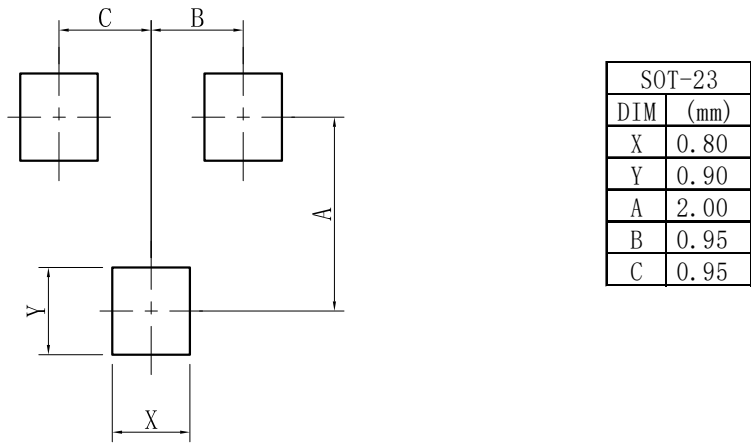
6.OUTLINE AND DIMENSIONS



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



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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