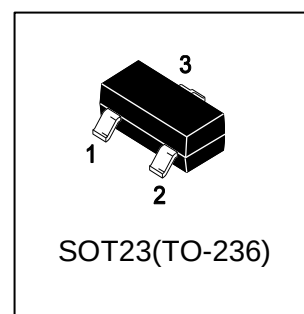


LBZX84C12LT1G

Zener Voltage Regulator Diodes

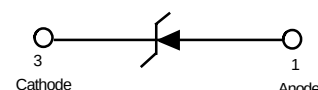
1. FEATURES

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



2. DEVICE MARKING AND ORDERING INFORMATION

Device	Marking	Shipping
LBZX84C12LT1G	Y2	3000/Tape&Reel
LBZX84C12LT3G	Y2	13000/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

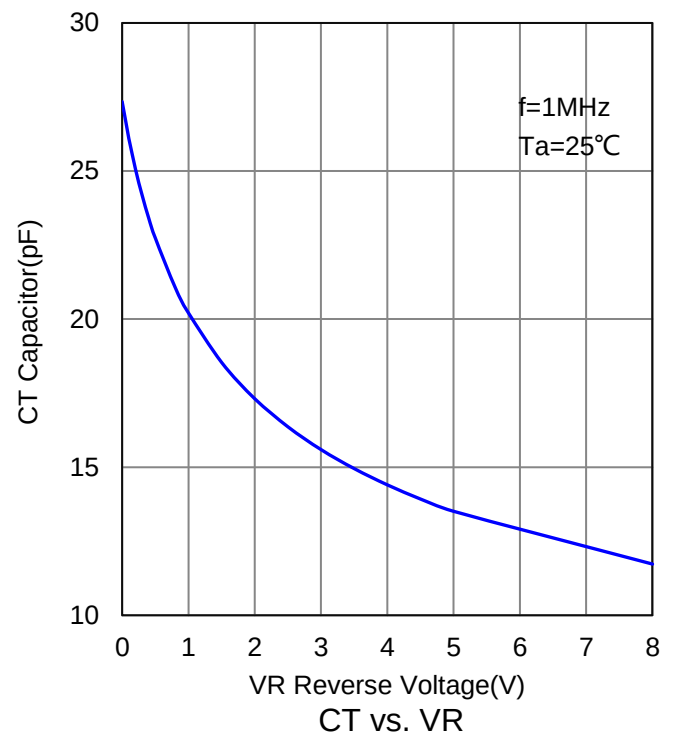
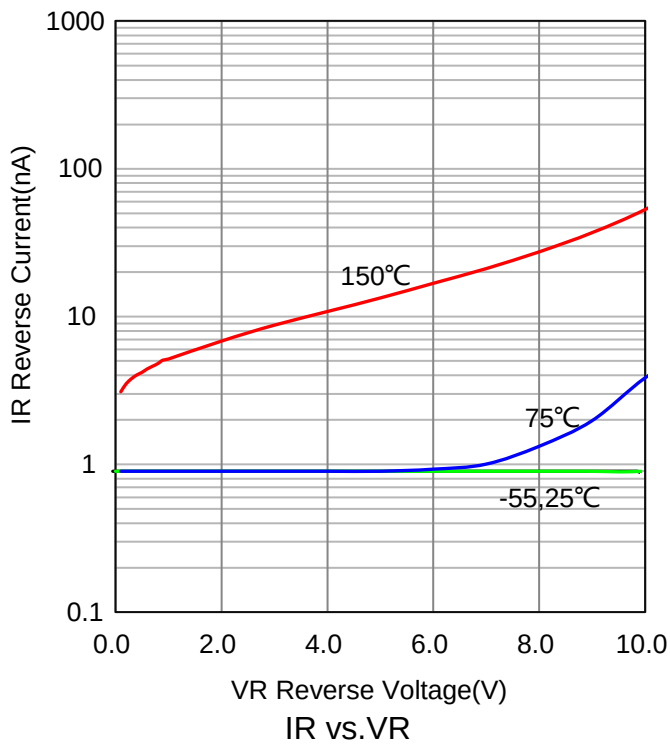
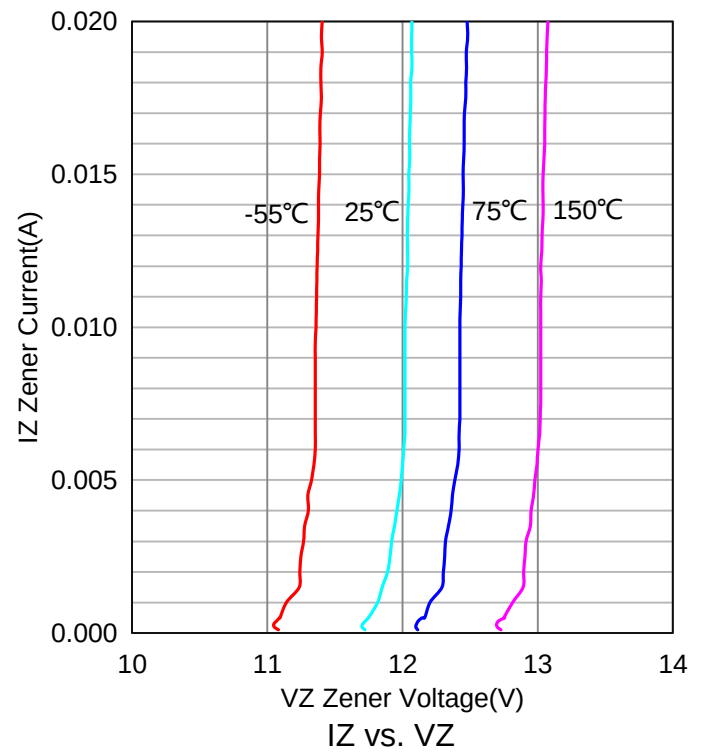
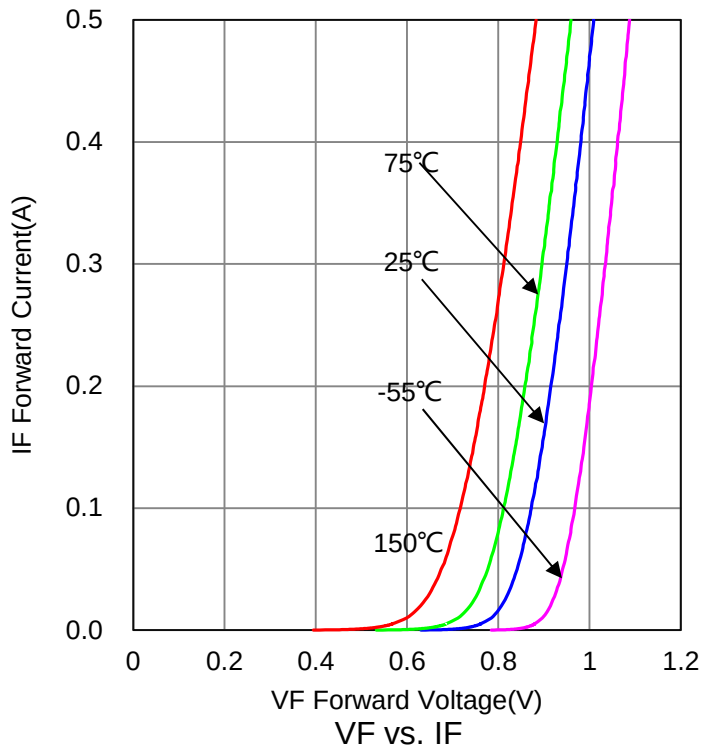
1. Device mounted on an FR-4 PCB, single-sided copper, tin-plated and standard footprint.

4. ELECTRICAL CHARACTERISTICS (Ta= 25°C)

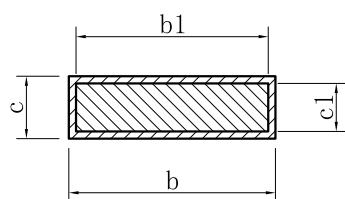
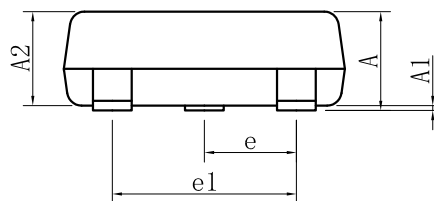
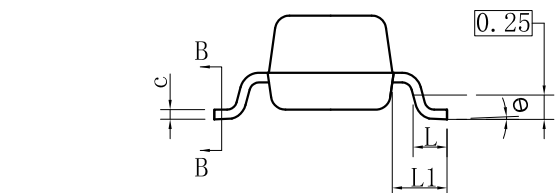
Characteristic	Symbol	Min.	Typ.	Max.	Unit
Zener Voltage(Note 2) (IZT1 = 5 mA) (IZT2 = 1 mA) (IZT3 = 20 mA)	VZ	11.4 11.2 11.4	12 - -	12.7 12.7 12.9	V
Zener Impedance (IZT1 =5mA) (IZT1 =1mA) (IZT1 =20mA)	ZZT	- - -	- - -	25 150 10	Ω
Reverse Leakage Current (VR=8V)	IR	-	-	0.1	μA
Forward voltage (IF=10mA)	VF	-	-	0.9	V
Capacitance (VR=0,f=1MHz)	C	-	130	-	pF
Temperature Coefficient (IZT1 = 5 mA)	θVZ	6	-	10	mV/°C

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

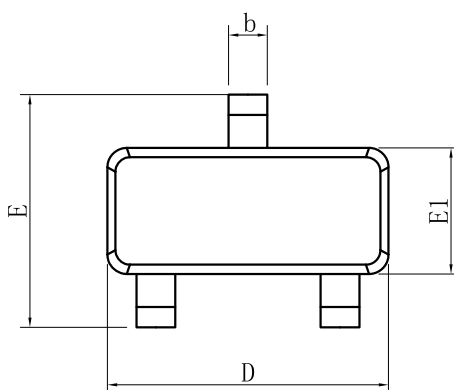
5.ELECTRICAL CHARACTERISTICS CURVES



6.OUTLINE AND DIMENSIONS



SECTION B-B

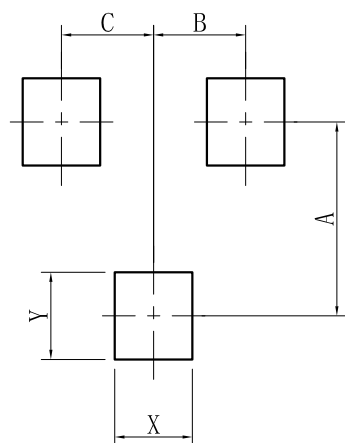


SOT23			
DIM	MIN	NOR	MAX
A	0.89	-	1.12
A1	0.01	-	0.10
A2	0.88	0.95	1.02
b	0.30	-	0.50
b1	0.30	0.40	0.45
c	0.08	-	0.20
c1	0.08	0.10	0.16
D	2.80	2.90	3.04
E	2.10	-	2.64
E1	1.20	1.30	1.40
e	0.95BSC		
e1	1.90BSC		
L	0.40	0.46	0.60
L1	0.54REF		
θ	0°	-	8°
All Dimensions in mm			

GENERAL NOTES

- 1.Top package surface finish $Ra0.4 \pm 0.2\mu m$
- 2.Bottom package surface finish $Ra0.7 \pm 0.2\mu m$
- 3.Side package surface finish $Ra0.4 \pm 0.2\mu m$

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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