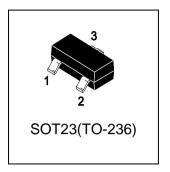


LBZX84C27LT1G S-LBZX84C27LT1G

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
LBZX84C27LT1G	Y10	3000/Tape&Reel
LBZX84C27LT3G	Y10	10000/Tape&Reel

3. THERMAL CHARACTERISTICS

Parameter	Symbol	Limits	Unit
Total Device Dissipation,	PD		
FR-5 Board (Note 1) @ TA = 25°C		225	mW
Derate above 25°C		1.8	mW/ºC
Thermal Resistance Junction–to–Ambient	RΘJA	556	°C/W
Total Device Dissipation,	PD		
Alumina Substrate (Note 2) @ TA = 25°C		300	mW
Derate above 25°C		2.4	mW/ºC
Thermal Resistance Junction–to–Ambient	RΘJA	417	°C/W
Junction and Storage temperature	TJ,Tstg	- 55∼+150	°C

 $^{1.}FR-5 = 1.0 \times 0.75 \times 0.062$ in.

^{2.}Alumina = $0.4 \times 0.3 \times 0.024$ in. 99.5% alumina.



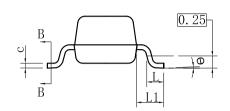
4. ELECTRICAL CHARACTERISTICS (Ta= 25°C)

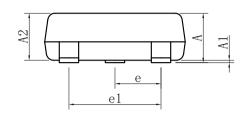
Characteristic	Symbol	Min.	Тур.	Max.	Unit
Zener Voltage(Note 3)					
(IZT1 = 2 mA)	VZ	25.1	27	28.9	V
(IZT2 = 0.1 mA)	\ \Z	25	-	28.9	V
(IZT3 = 10 mA)		25.2	-	29.3	
Zener Impedance					
(IZT1 = 2 mA)	ZZT	-	-	80	Ω
(IZT2 = 0.5 mA)		-	-	300	22
(IZT3 = 10 mA)		-	-	45	
Reverse Leakage Current	IR				μA
(VR=18.9V)	ПХ	-	-	0.05	μΛ
Capacitance	С				pF
(VR=0,f=1MHz)		-	70	-	ρι
Temperature Coefficient	θVZ				mV/k
(IZT1 = 2mA)	0 1 2	21.4	-	25.3	111 V/IX

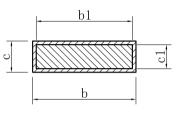
^{3.}Zener voltage is measured with a pulse test current IZ at an ambient temperature of 25°C.



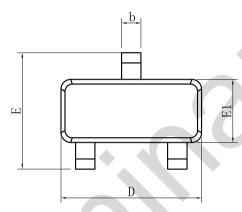
5.OUTLINE AND DIMENSIONS







SECTION B-B

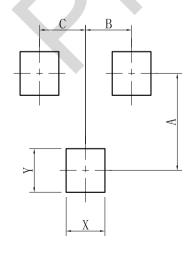


SOT23				
DIM	MIN	NOR	MAX	
A	0.89	_	1.12	
A1	0.01	_	0.10	
A2	0.88	0.95	1.02	
b	0.30	-	0.50	
b1	0.30	0.40	0.45	
С	0.08	-	0.20	
c1	0.08	0.10	0.16	
D	2.80	2.90	3.04	
Е	2.10	_	2.64	
E1	1.20	1.30	1.40	
е				
e1	1. 90BSC			
L	0.40	0.46	0.60	
L1		0.54REF	ì	
θ	0°	_	8°	
All Dimensions in mm				

GENERAL NOTES

- 1. Top package surface finish RaO. 4 ± 0.2 um
- 2. Bottom package surface finish RaO.7 \pm 0.2um
- 3. Side package surface finish RaO. 4 ± 0.2 um

6.SOLDERING FOOTPRINT



S0T-23		
DIM	(mm)	
X	0.80	
Y	0.90	
A	2.00	
В	0.95	
С	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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