



DEVETECH ELECTRONICS CO. LTD

BUZZER
CUSTOMER: DACHS ELECTRONICA
P/N: DVZ-2310TD24PA

DESIGNED BY	
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Document revision history				
Change N°	Date	Subject and reason	Version N°	Responser
	2014-05-25			

1. Scope

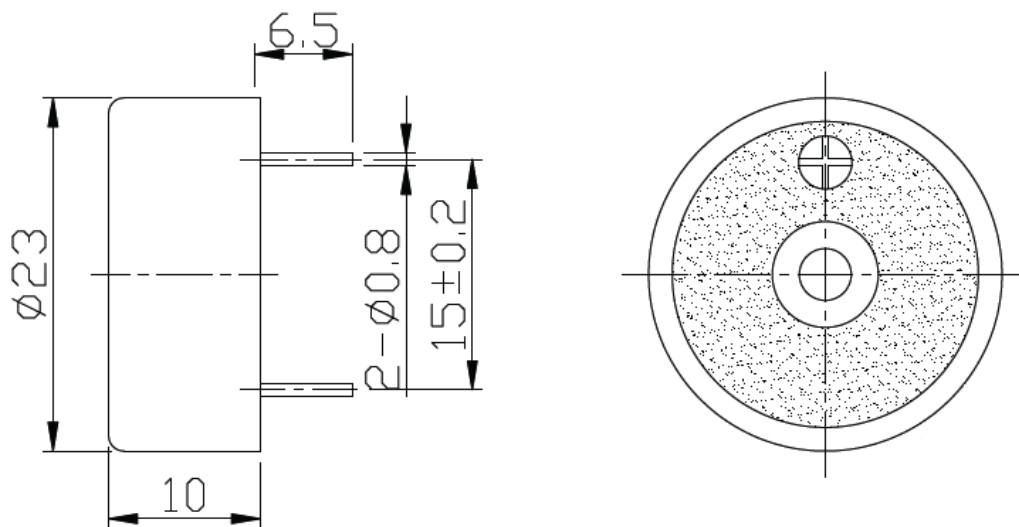
This specification applies piezoelectric active buzzer, DVZ-2310TD24PA

2. Specification

No.	Item	Unit	Specification	Condition
1	Rated voltage	Vp-p	24	
2	Operating voltage	Vp-p	9~24.0	
3	Rated current (MAX)	mA	5.0	
4	Min sound output at 3.8KHz/10cm	dB	80	
5	Capacitance at 1KHz	pF	10000±30%	
6	Resonant frequency	Hz	4000±500	
7	Operating temperature	°C	-20°C+70	
8	Storage temperature	°C	-30°C+80	
9	Environmental protection regulation		RoHS	
10	Housing material		PPO	

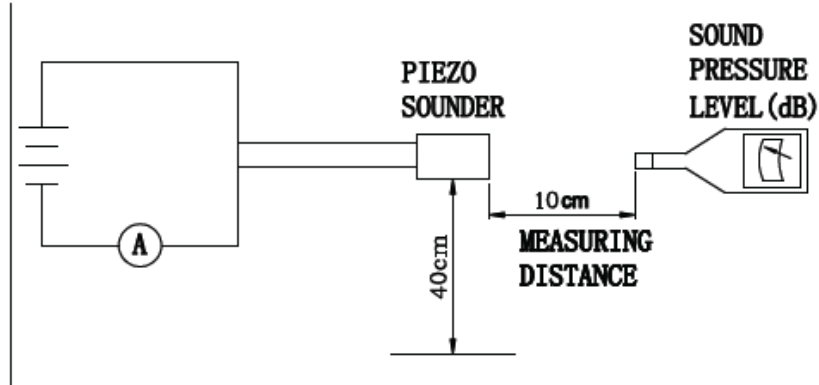
3. Appearance drawing

TOL_ ±0.2 Unit: mm

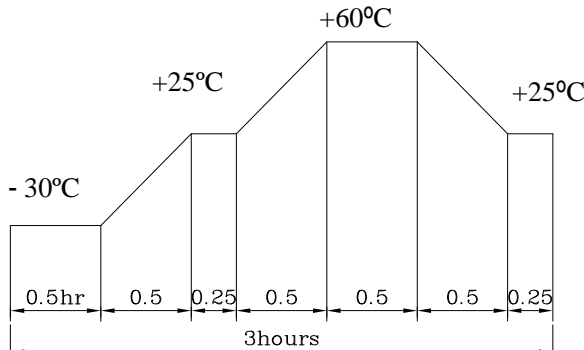


4. Acoustic characteristics

The oscillation frequency, current consumption and sound pressure are measured by the measuring instruments shown below.



5. Reliability

No	Item	Test condition and requirement
1	High temperature test (storage)	After being placed in a chamber with $70\pm 2^{\circ}\text{C}$ for 48 hours and then being placed in normal condition for 2 hours. Allowable variation of SPL after test $\pm 10\text{dB}$.
2	Low temperature test (storage)	After being placed in a chamber with $-20\pm 2^{\circ}\text{C}$ for 48 hours and then being placed in normal condition for 2 hours. Allowable variation of SPL after test $\pm 10\text{dB}$.
3	Humidity test	After being placed in a chamber with 90-95% RH at $40\pm 2^{\circ}\text{C}$ for 48 hours and then being placed in normal condition for 2 hours. Allowable variation of SPL after test $\pm 10\text{dB}$.
4	Temperature cycle test	<p>The part shall be subjected to 5 cycles. One cycle shall be consist of:</p>  <p>Allowable variation of SPL after test $\pm 10\text{dB}$.</p>
5	Vibration	After being applied vibration of amplitude of 1.5mm with 10 to 55Hz band of vibration frequency to each of 3 perpendicular directions for 1 hour. Allowable variation of SPL after test $\pm 10\text{dB}$.



6	Solderability test	Lead terminals are immersed in rosin for 3 seconds and then immersed in solder bath of +260°C for 3 seconds . 90% min. lead terminals shall be wet with solder (Except the edge of terminals).
7	Terminal strength pulling test	The force of 5N is applied to each terminal in axial direction for 5 seconds. No visible damage and cutting off.

Test condition

Standard test condition:

a) Temperature: +5~+35°C b) Humidity: 45-85% c) Pressure: 860-1060mbar

Judgment test condition:

a) Temperature: +25±2°C b) Humidity: 60-70% c) Pressure: 860-1060mbar



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NOTES
