



**DEVETECH ELECTRONICS CO. LTD**

**SMD BUZZER**  
**CUSTOMER: DACHS ELECTRONICA**  
**P/N: DVZ-052025F-0304**

DESIGNED BY	
CHECKED BY	
APPROVED BY	

Address: 11/F.,F.Block, Hang Lok Building, 130Wing Lok St., Hong Kong.  
Address: A3L1, Youpinyishu, Huanmei Rd., Dameisha, Yantian district, Shenzhen, China  
Tel: (86) 13632770721 Email: [sales@devetechelectronics.com](mailto:sales@devetechelectronics.com)  
Website: [www.devetechelectronics.com](http://www.devetechelectronics.com)



<b>CONTENTS</b>		
<b>N°</b>	<b>Contents</b>	<b>Page</b>
1	Scope	3
2	Specification	3
3	Soldering condition	3
4	Appearance drawing	4
5	Frequency characteristics	4
6	Recommend driving circuit	5
7	Testing method	5
8	Reflow soldering temperature curve	6
9	Reliability	6

## 1. Scope

This specification applies SMD buzzer, DVZ-052025F-0304.

## 2. Specification

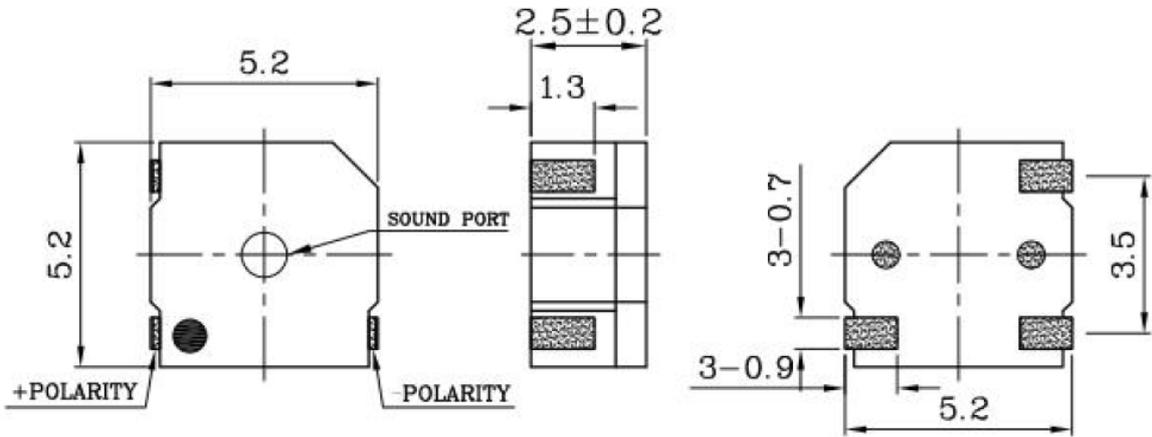
	Item	Unit	Specification	Condition
1	Rated voltage	Vo-p	3.0	
2	Operating voltage	Vo-p	2.0-4.0	
3	Fundamental frequency	Hz	4000	
4	Coil resistance	Ω	12±3	
5	Max rated current	mA	110 Max.	
6	Min. sound pressure level	dB	78Min	At 10 cm
7	Dimension	mm	5.2*5.2*H2.5	See appearance drawing
8	Operating temperature	°C	-20 ~ +80	
9	Storage temperature	°C	-30 ~ +80	
10	Outer covering material		LCP	

## 3. Soldering condition

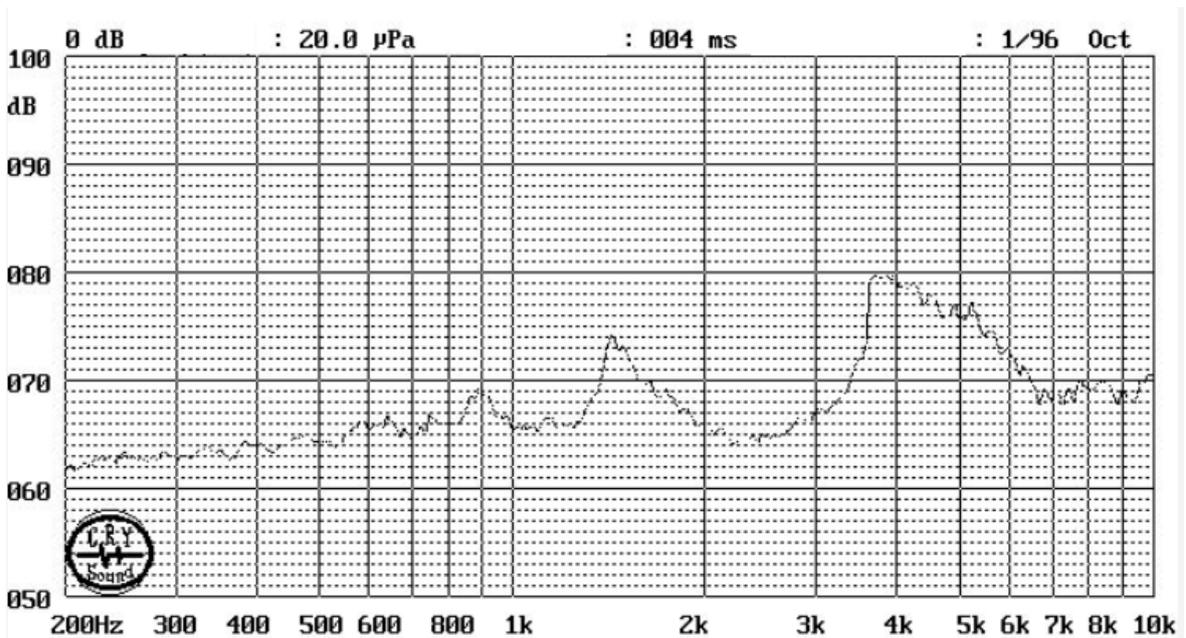
Buzzer soldering process	Soldering parameter	
	Temp. (°C)	Time (Sec.)
Reflow soldering	255±5	220~255°C 40s
Wave soldering	255±5	3~4s
Manual soldering	320~350	2~3s

### 4. Appearance drawing

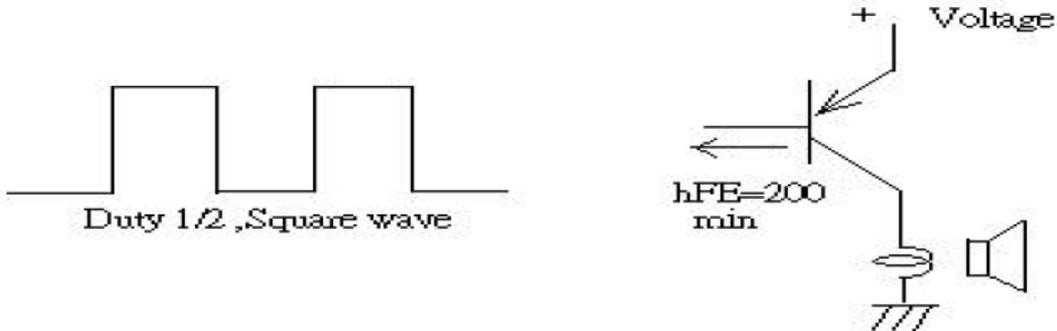
Model No: DVZ-052025F-0304 TOL:  $\pm 0.3$



### 5. Frequency characteristics



## 6. Recommend driving circuit



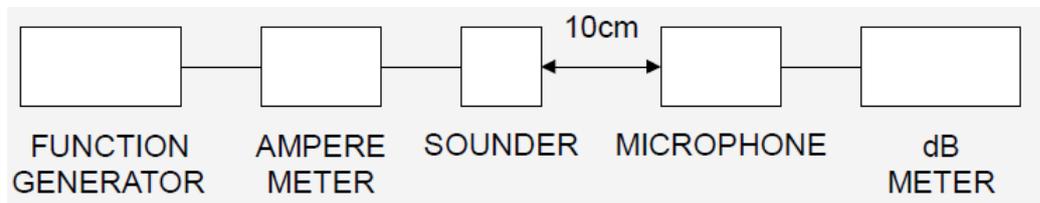
The base current  $I_b$  should high enough so that it saturates the collector current of the transistor with the CB load.

## 6. Testing method

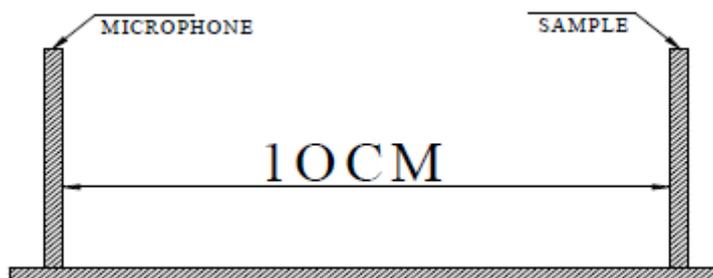
**Standard measurement conditions:** Temperature:  $25 \pm 2^\circ\text{C}$  Humidity: 45-60%

### Acoustic characteristics

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



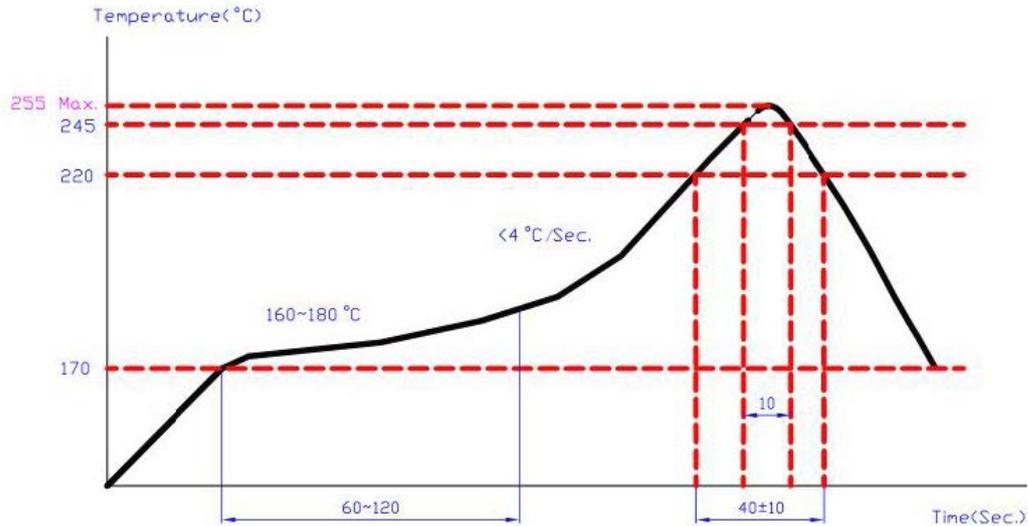
In the measuring test, buzzers are placed as follows:



## 7. Reflow soldering temperature curve

(1) Recommendable reflow soldering condition is as follows

Note: It is requested that reflow soldering should be executed after heat of product goes down to normal.



Heat resistant line

(Used when heat resistant reliability test is performed)

## 9. Reliability

Items	Method of test and measurements	Performance
Coldness withstanding	After 98 hours of being exposed to -30°C environment, should be returned to normal environment for 2 hours, then re-proceed to test.	No abnormality shall exist
Hotness withstanding	After 98 hours of being exposed to +80°C environment, should be returned to normal environment for 2 hours, then re-proceed to test.	No abnormality shall exist
Humidity withstanding	After 98 hours of being exposed to 40°C 95%RH environment in actual operation, should be returned to normal environment for 2 hours, then re-proceed to test.	No abnormality shall exist
Durability	Testing after 1,000 hours actual continuous operation. (at standard measurement conditions)	No abnormality shall exist
Drop withstanding	A natural drop from 75cm high down to the ground.	No abnormality shall exist
Vibration withstanding	Vibration of 2,000 cycles per minute, 2mm amplitude, applied in X, Y and Z directions for 30 minutes each.	No abnormality shall exist

