

SMD BUZZER

CUSTOMER: DACHS ELECTRONICA P/

N: DVZ-052020F-0304

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CONTENTS				
Nº	Contents	Page		
1	Scope	3		
2	Specification	3		
3	Appearance drawing	4		
4	Typical Frequency response curve	4		
5	Recommend driving circuit	5		
6	Testing method	5		
7	Soldering condition	6		
8	Reliability	6		

P/N: DVZ-052020F-0304 Page 2 of 7



1. Scope

This specification applies piezoelectric diaphragm, DVZ-050020F-0304.

2. Specification

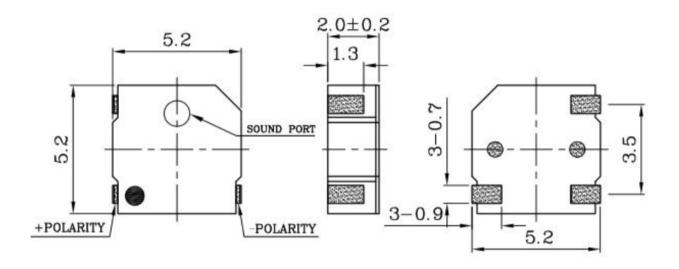
	Item	Unit	Specification	Condition
1	Rated voltage	Vo-p	3.0	
2	Operating voltage	Vo-p	2.0-4.0	
3	Fundamental frequency	Hz	4000	
4	Coil resistance	Ω	12±3	
5	Max rated current	mA	110 Max.	
6	Min. sound pressure level	dB	75Min	At 10 cm
7	Dimension	mm	5.2*5.2*H2.0	See appearance drawing
8	Operating temperature	°C	-20 ~ +60	
9	Storage temperature	°C	-30 ~ +80	

P/N: DVZ-052020F-0304 Page 3 of 7

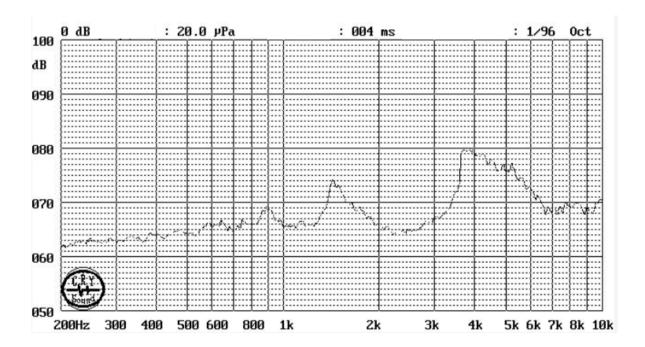


3. Appearance drawing

Model No: DVZ-052020F-0304 TOL: ±0.5



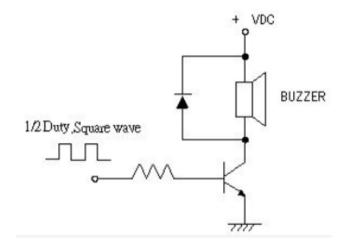
4. Typical Frequency response curve



P/N: DVZ-052020F-0304 Page 4 of 7



5. Recommend driving circuit



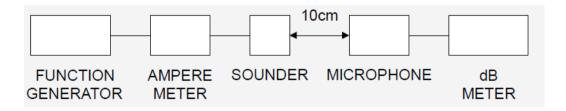
The base current Ib should high enough so that it saturates the collector current of the transistor with the CB load.

6. Testing method

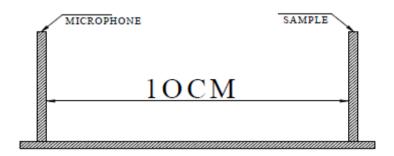
Standard measurement conditions: Temperature:25±2°C Humidity:45-60%

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:

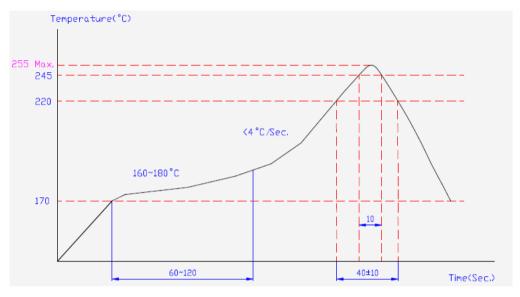


P/N: DVZ-052020F-0304 Page 5 of 7

7. Soldering condition

(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)

(2) Manual soldering: Manual soldering temperature 330 °C within 3 sec.

8. 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

P/N: DVZ-052020F-0304 Page 6 of 7



NOTES

P/N: DVZ-052020F-0304 Page 7 of 7